HAMILTON COLLEGE CATALOGUE

Program for 1969-70

Records for 1968-69

September, 1969

CLINTON, NEW YORK 13323

Table of Contents

OREWORD ---------- 5

NROLLMENT ---------- 8
Admission, 9; Expenses, 13; Financial Aid, 19

CADEMIC INFORMATION ---------- 30
Academic Program, 31; Courses of Instruction, 45; Planning for a Career, 91

ENERAL INFORMATION ---------- 98
The College and Its Resources, 99; Undergraduate Life, 105

ONORS AND AWARDS ---------- 118
Honors, 119; Fellowships, 120; Prize Scholarships, 121; Prizes, 124

PPENDIX: COLLEGE RECORDS, 1968-69 ------- 130
Board of Trustees, 131; The Faculty, 134; Administrative Officers and Staff, 141; Alumni Organizations, 143; Degrees, Honors and Awards, 146

DETACH AFTER SEWING ONLY

College Calendar 1969-70

SEPTEMBER	5-9	Fri.-Tues.	Freshman orientation program
	8-9	Mon.-Tues.	Registration for upperclassmen
	10	Wed.	Beginning of academic year, 8 a.m. Convocation, 11 a.m. All class hours meet for twenty minutes
OCTOBER	11	Sat.	Homecoming
	25	Sat.	Mid-semester warnings for all classes due
NOVEMBER	8	Sat.	Parents' Weekend
	26	Wed.	Thanksgiving recess begins, 12 noon
DECEMBER	1	Mon.	Thanksgiving recess ends, 8 a.m.
	6	Sat.	Freshman election of courses for second semester due
	11	Thurs.	Last day of classes
	14-20	Sun.-Sat.	Final examinations
	20	Sat.	Christmas recess begins, 5 p.m.
JANUARY	5	Mon.	Christmas recess ends, 8 a.m. Winter Study Program begins
	27	Tues.	Winter Study Program ends
FEBRUARY	2	Mon.	Second semester begins, 8 a.m.
MARCH	20	Fri.	Spring recess begins, 5 p.m. Mid-semester warnings due
APRIL	6	Mon.	Spring recess ends, 8 a.m.
	15	Wed.	Sophomore elections of concentration due
MAY	1	Fri.	Pre-registration for 1970-71 due
	7-8	Thurs.-Fri.	Senior Comprehensive examinations
	13	Wed.	Class and Charter Day. Laboratory classes scheduled for this day may be rescheduled for Friday afternoon, May 15
	15	Fri.	Last day of classes
	18-25	Mon.-Mon.	Final examinations
	31	Sun.	Commencement

1970-71 *(Tentative)*

SEPTEMBER	8-13	Tues.-Sun.	Freshman orientation program
	10-13	Thurs.-Sun.	Registration for upperclassmen
	14	Mon.	Beginning of academic year, 8 a.m. Convocation, 11 a.m. All class hours meet for twenty minutes
OCTOBER	3	Sat.	Homecoming
	24	Sat.	Mid-semester warnings for all classes due
	31	Sat.	Parents' Weekend
NOVEMBER	25	Wed.	Thanksgiving recess begins, 12 noon
	30	Mon.	Thanksgiving recess ends, 8 a.m.
DECEMBER	5	Sat.	Freshman election of courses for second semester due
	11	Fri.	Last day of classes
	14-19	Mon.-Sat.	Final examinations
	19	Sat.	Christmas recess begins, 5 p.m.
JANUARY	4	Mon.	Christmas recess ends, 8 a.m. Winter Study Program begins
	26	Tues.	Winter Study Program ends
FEBRUARY	1	Mon.	Second semester begins, 8 a.m.
MARCH	19	Fri.	Spring recess begins, 5 p.m. Mid-semester warnings due
APRIL	5	Mon.	Spring semester ends, 8 a.m.
	14	Wed.	Sophomore elections of concentration due
	30	Fri.	Pre-registration for 1971-72 due
MAY	6-7	Thurs.-Fri.	Senior Comprehensive examinations
	12	Wed.	Class and Charter Day. Laboratory classes scheduled for this day may be rescheduled for Friday afternoon, May 14
	14	Fri.	Last day of classes
	17-24	Mon.-Mon.	Final examinations
	30	Sun.	Commencement

Foreword

HAMILTON COLLEGE is an independent and privately endowed liberal arts college for men. Instruction has been continuous since 1793 when Samuel Kirkland, missionary to the Iroquois Indians, achieved his lifelong ambition: the founding of an academy.

Although Kirkland's special aim of educating Indian youth proved illusory and frustrating, the academy enjoyed both local and national support from the outset. Among friends who responded sympathetically to Kirkland's new venture were George Washington and Alexander Hamilton. By way of showing gratitude for Kirkland's contribution to the American Revolution by securing the neutrality of the Indians, Hamilton consented to be one of the first trustees of the new academy which bore his name.

On July 1, 1794, Baron von Steuben, "the drillmaster of the Revolution," laid the cornerstone of the first building of the Hamilton-Oneida Academy. Eighteen years later, in 1812, the academy was chartered as Hamilton College.

As the College begins its 157th year the enrollment is about 850 students. Hamilton has chosen to remain small in order to continue to stress the quality of its education, its tradition for intellectual distinction and its concern with the individual student.

Undergraduates at Hamilton benefit not only from its small size but also from the continuing generosity of its friends and alumni. Because of endowment assets with a market value of approximately $30 million, generous annual contributions for current support, and a well-equipped plant, Hamilton is able to provide an education far beyond what tuition alone would support. Included among the College's resources are about 110 scholarship and loan funds, with total assets of approximately $3.3 million.

Kirkland College, a liberal arts college for women, opened in the fall of 1968 on a campus immediately adjacent to Hamilton. Kirkland will begin the 1969-70 academic year with approximately 320 students and will have an enrollment of approximately 600 after four full classes have matriculated. Hamilton and Kirkland share many facilities and, with certain limited exceptions, the courses offered by each institution are available to students at the other. The two colleges cooperate closely in designing their curricular offerings so as to insure a wide variety of courses.

Kirkland represents the first stage in a long-range plan adopted by the Hamilton trustees to develop a cluster of small colleges which will share various central facilities and engage in cooperative educational arrangements. The cluster plan is designed to retain the advantages of smallness while gaining many of the additional advantages of a larger combined student and faculty population.

Although courses naturally vary in enrollment, Hamilton is able to keep the average class size small enough to insure that every student will receive considerable individual attention during his four years. Practically all courses at Hamilton are taught by full-time members of the faculty, and freshmen are just as likely as seniors to be taught by the most distinguished and experienced members of the teaching staff. The ratio of faculty to undergraduates is about one to eleven. Hence there is a close and rewarding relationship between students and faculty.

Other characteristics of the College should also be mentioned. Although Hamilton is not affiliated with any religious denomination, the College has always respected the religious motives and traditions of its founder and early leaders. It has great confidence in the personal integrity of its students, who govern themselves under a long-established honor system. It puts emphasis on teaching carry-over sports and has a varied and vigorous program of intercollegiate athletics. But above all, Hamilton concerns itself with the development of its students' intellectual abilities and can point with pride to the unusually large number of its graduates whose careers have been marked by distinguished and pioneering work.

To prepare young men for useful, interesting, and effective lives was the original aim of Samuel Kirkland. It is the aim of Hamilton College today.

OFFICE OF
ADMISSION

ENROLLMENT

Admission
Expenses
Financial Aid

Admission

HAMILTON COLLEGE makes a selection among applicants for admission to the freshman class on the basis of scholarship and character. A candidate from a high school will be expected to have an average for his course of not less than 80 per cent. A candidate from a private school should have college certificating grades in all of his subjects. In neither case does the meeting of these minimum standards assure admission.

Because each year there are many more qualified applicants than there are places available, admission to the freshman class is competitive. Among the qualified candidates preference will be given to sons of alumni and to those who live in regions or attend schools not already well represented in the class. Preference will also be given to applicants who show promise of being able to make contributions to campus activities. Members of minority groups are especially encouraged to apply.

Since it is the experience of the College that freshmen substantially less mature than their classmates do not enjoy the full opportunities of Hamilton life, age is considered in the evaluation of a candidate who would be barely seventeen upon entering.

Application for admission to the freshman class should be made to the Secretary of Admission, Hamilton College, Clinton, New York 13323. A candidate should file his application as early as possible in his senior year. The filing of the blue preliminary form facing page 16 will bring the applicant the formal application blank.

REQUIREMENTS FOR ADMISSION

Secondary School Credits

A candidate for admission is expected to complete a secondary school course which gives preparation for the work of a liberal arts college. Sixteen units will be required, drawn from the usual college preparatory subjects of English, mathematics, foreign language (ancient or modern), science and social studies. Although the College does not prescribe how these subjects shall be distributed, it expects a minimum of four years of English, three years of mathematics, two years of science, and three years of one foreign language. If this language is to be continued at Hamilton it is strongly recommended that it be studied through the senior year of secondary school. Candidates who propose to participate in the cooperative engineering program (page 92) should offer strong records in mathematics and the physical sciences. Because of the intellectual demands of college work, candidates are urged to pursue a strong academic program during the final secondary year, carrying a minimum of four preparatory courses. Since Hamilton College stresses above all else the ability and the ambition to do intellectual work, it will consider the applications of highly recommended, able candidates whose preparation is somewhat irregular in the number of units presented and in the subjects studied.

Examinations

Each candidate must take in November, December, January, or March (preferably in December or January) of his senior year the Scholastic Aptitude Test of the College Entrance Examination Board. The fee is $5.50. Information about and applications for this test may be obtained from the College Entrance Examination Board, Box 592, Princeton, N. J. 08540, or Box 1025, Berkeley, Calif. 94701.

Admission Interview

Prior to March 1, each candidate should make every effort to visit the campus for a personal interview. He should write or telephone the Admission Office to request a specific date for an appointment. Only occasionally, and then because the applicant lives a great dis-

tance from the College, may this requirement be satisfied by an off-campus interview. The Admission Offices are open on Monday through Friday from 9:00 a.m. to 11:30 a.m. and from 1:30 p.m. to 4:00 p.m. Except in the months of June, July, and August, the Offices are also open on Saturdays from 9:00 a.m. to 11:30 a.m., but the candidate is encouraged to schedule his interview for a weekday. It is recommended that secondary school juniors defer their visits until completion of the eleventh grade. Overnight accommodations are available in the Bristol Campus Center.

Early Decision

The well qualified candidate who has Hamilton as his first choice of college may ask for an early decision on his application. Since this policy has been adopted as a means of alleviating the problem of multiple applications, a request for early decision should be made as early as possible (any time after July 1) so that the candidate will know in sufficient time whether he need apply to other colleges. He may, however, request an early decision on his application as late as February 1. Regardless of the date of application he will be notified within two weeks after his application file is complete. If early admission is offered and accepted, it is understood that the candidate will not apply to other colleges, or, if he has already submitted other applications, that he will immediately withdraw them. Should he be a candidate for financial aid, action will be taken on this application at the same time as his application for admission. Early decision will be based upon: (1) the candidate's school record through the junior year; (2) the strong recommendation of his school; (3) the results of the Scholastic Aptitude Test taken in the junior year; (4) the personal interview. No candidate should request early admission unless he is absolutely certain that Hamilton is his first choice.

Admission with Advanced Placement

Entering freshmen who score satisfactorily on placement tests given by the College Entrance Examination Board may, with the approval of the department concerned and the Academic Council,

be granted advanced placement, or appropriate credit, or both. Information about these tests can be obtained from the College Entrance Examination Board.

Transfer from Other Colleges

The College is interested in the well qualified student who, for sound reasons, wishes to transfer to Hamilton. Preference will be given, first, to those who would matriculate as sophomores, next to those who would do so as juniors. Because of the College's graduation and residency requirements (pages 31-44), no transfer student may be admitted as a member of the senior class. An undergraduate who desires admission with transfer credit must present an official statement of honorable dismissal and of his previous work at an approved institution of collegiate rank. With the exception that transfer credit in freshman English composition must be validated by an achievement test at Hamilton, he may be granted credit for such work without examination. This official statement must include a full list of his accepted preparatory subjects, and a list of his college courses with his record therein. Such admission by transfer is ordinarily granted only when the applicant has maintained a standing in the upper half of his class. Credit is given only for courses completed with a grade of C or better.

REGISTRATION

Freshmen must report several days before the formal opening of College. During these days each freshman has an interview with his faculty adviser and takes a physical examination and aptitude and achievement tests. The information supplied by the tests is used by the Deans and by faculty counselors to help each student adjust himself to the life and work of the College.

All students must register before the opening of College. Schedules of returning students are revised at this time, if necessary, and the schedules of new men arranged.

Expenses

HAMILTON'S founders desired that no qualified student should be turned away for lack of funds. To that end, they and their successors created an endowment which—together with annual gifts—makes possible a tuition charge representing only one-half of what a student's education actually costs.

However, for many men (fully 35 percent of those enrolled at Hamilton in an average year) even this contribution is not enough. Scholarship money, employment opportunities, or loans have been provided for those who demonstrate need for financial aid.

Clearly enough, the desire remains to make Hamilton's education available to all who are found worthy. How well this desire can be realized for each applicant can only be answered on an individual basis. For information about the financial aid available to entering freshmen, see pages 19-28.

The fixed charges for a year at Hamilton to cover tuition, board, room and the over-all fee amount to $3,700. On the average, a student will need approximately $450 more to cover his personal expenses, the actual amount dependent in part upon the distance between his home and the College. Below are listed the charges and the ways in which the College offers assistance in meeting them.

COLLEGE FEES

Application Fee, Deposits

APPLICATION FEE. An application fee of $15.00 (not returnable) must accompany each formal application for admission. No fee is

required with the preliminary application form (the blue form facing page 16).

REGISTRATION DEPOSIT. Those candidates who are offered admission must pay by May 1 a non-returnable deposit of $50.00. This fee is credited on the first bill.

GUARANTEE DEPOSIT. An initial guarantee deposit of $25.00 is required from each regularly enrolled student upon entering College. This deposit will be held to insure final payment of minor bills. Any unused balance will be returned to the student after he leaves College.

Tuition and Other Fixed Fees for 1970-71

Tuition	per year	$2,350*
Room (dormitory)	per year	500
Board (at Commons)	per year	650
Over-All Fee	per year	200

TUITION. All undergraduates pay the basic tuition fee. For the occasional special or non-matriculated student given permission by the faculty to carry less than the minimum full-time program of four courses, the tuition charge will be applied at the rate of $260† per course.

Those students who enroll in more than four courses in any semester pay an OVERELECTION FEE of $260† for each extra course elected, but only when the overelection is necessary for the removal of delinquencies.

A student will be considered to be removing delinquencies whenever his courses accepted for credit are fewer than the normal total for his class.

ROOM AND BOARD. The figures given above are those for rent of a room in a College dormitory and for board in the College Commons. Rates for room and board in fraternity houses are determined by each house. The College provides a 6′6″ bed with springs and mattress, a desk, two chairs and a dresser for each occupant. Because of dormitory financing arrangements, a student who moves from a dormitory to a fraternity house after two weeks from the opening date of any semester, will not be entitled to any rebate on his room rent.

* In 1969-70, $2,000
† In 1969-70, $225

OVER-ALL FEE AND MEDICAL SERVICE. The over-all fee is paid by all registered students except those participating in the Semester in Washington program who pay a reduced fee of $125. The fee covers charges for student publications, student activities, educational equipment, and medical services.

Medical services include all Health Center services. Except for board, no charges are made for these services, which include medicines, treatments and X-rays. The patient's board is not covered by the over-all fee and is charged at the current College rate. A student who takes his meals at Commons receives credit for meals missed while he is in the Health Center.

Group accident insurance is extended without separate charge to all regularly enrolled students who pay the over-all fee. This insurance will cover the actual cost, up to $500, of any medical or surgical treatment, including hospitalization and the services of trained nurses and other necessary medical charges that may be required in consequence of an accident. Excluded, however, are all such charges that may be incurred at the College-operated Health Center. The College policy is subject to terms and conditions required by statute or by rulings of the New York State Insurance Department. Certificates of insurance are available to students upon request. The coverage runs for ten months of each academic year, from September 1 to July 1, and affords protection against all accidents, whether sustained at Hamilton or elsewhere.

All bills and charges in connection with a given accident must be presented to the College within two years of the time of the incident. A $50 deductible clause applies to each incident except those which occur as a result of participation in varsity or approved intramural athletic contests. In addition, the College carries a medical disaster contract, applying to each and every student, again involving accident only and providing that for all charges incurred in connection with an accident above $500, the insurance carrier will pay 80 percent of such charges up to a maximum amount of $5,000 per accident.

Except as described above, the College assumes no responsibility for medical or health services to the students.

SPECIAL EXAMINATION FEE. A special examination fee of $60.00 is charged for each examination to earn credit for independent coverage of course work. (See page 41.)

GRADUATION FEE. A graduation fee of $10.00 must be paid by each senior. The charge will appear on the January bill.

Music Fees

Private instruction in voice or instrument is $90 per semester. This does not apply to students taking instruction to satisfy the performance requirements for a concentration in music.

Optional Social Fee

As a service to the Student Entertainment Committee of the Student Senate, the summer bills for upperclassmen may include a $30.00 charge for the social ticket, depending upon each student's option at the time of pre-registration in the spring. All summer bills to members of the freshman class will include the charge for the social ticket; any freshman who does not want to purchase a ticket may deduct that item from the bill. The social ticket entitles the holder to attend the entertainment planned for the major college weekends at a substantially lower admission charge than that required from a non-ticket holder. In addition, social ticket holders are admitted free to some social functions for which non-holders are charged.

PAYMENT OF BILLS

One-half of the annual charges are billed in the late summer and the other half in early January. These bills will be mailed to the student's parents or legal guardian unless the College receives instructions to the contrary. At least one-half of the summer bill must be paid before the student may attend his first class of the fall semester; at least one-half of the January bill must be paid before he may attend his first class of the spring semester. The other half of each bill may be paid in equal installments, by October 15 and November 15 in the fall semester, and by March 15 and April 15 in the spring semester. For this installment arrangement, there is a charge of $10.00 per billing, payable with one half of the bill. In the case of freshmen, credit for the registration deposit will be shown on the summer bill.

Many organizations and banks offer various payment plans for tuition and fees. In general, these allow for monthly payments for as

long as sixty-four months. The College does not advocate any particular plan, but the Business Office has a list of tuition-paying organizations which can be supplied any student or parent on request.

All other College bills will be sent to students, who will be responsible for their payment.

Any student whose bill is not paid as provided herein may be excluded from classes until the bill or installment due is paid, and further shall be subject to a $5.00 service charge for each late payment. After a 15-day lapse beyond the due dates of installments, not only will the service charge be levied, but a $1.00 penalty fee will also be applied to the bill for each additional day of delinquency.

No student whose college bills are unpaid may receive a degree or honorable dismissal, or obtain a transcript of his record. Under no circumstances will a student be allowed to take a final examination while he owes any unpaid bill to the College.

REFUNDS

Because faculty and staff salary commitments must be made in advance and because the costs of plant operation are fixed, the College must follow a very limited refund policy in the event of withdrawal. If a student enters late, is absent under discipline, withdraws, or is dropped from College, his board bill is prorated provided he takes his meals at Commons; board bills will also be prorated for students who, for academic reasons, are absent from the campus for two weeks or more during the Winter Study period, unless the absence involves an exchange with another institution. No other charges are remitted or refunded.

Financial Aid

SEVERAL possibilities for financial aid present themselves to the applicant for admission who finds himself unable to meet the full cost of enrollment. Many Hamilton students receive financial assistance through scholarship grants, and a number augment their resources through part-time employment and long-term loans. General scholarships (page 26-28) are available to a large number of able freshmen, and many of the special scholarships (page 24) are also available to first-year men provided they meet the particular requirements stipulated in each instance. Listed below are the scholarships especially reserved for freshmen. It should be noted that, in the main, these grants are awarded to candidates who have demonstrated their capacity for intellectual achievement, who have shown promise of leadership, and who have demonstrated need for financial aid. Any candidate for admission is eligible to apply for financial aid.

Hamilton College participates in the College Scholarship Service of the College Entrance Examination Board. This Service assists the College in determining the student's need for financial aid. Entering students seeking such assistance are required to submit a copy of the Parents' Confidential Statement form to the College Scholarship Service, designating Hamilton College as one of the recipients. The filing of this application prior to March 1, 1970, will ensure a candidate being given consideration for any scholarship, special or general, for which he may be eligible. No other application need be filed. It may be obtained from a secondary school or from the College Scholarship Service, Box 176, Princeton, N. J. 08540, or Box 1025, Berkeley, Calif. 94701, depending upon the applicant's proximity to one of those two cities. For further information, candidates should write to the Secretary of Admission, Hamilton College, Clinton, N. Y. 13323.

FRESHMAN SCHOLARSHIPS

George F. Baker Scholarships

Established by the will of the late George F. Baker, this scholarship program makes funds available to the young men demonstrating the highest over-all promise. Any candidate for admission to Hamilton in 1970 may apply for a Baker Scholarship. In determining the three or four annual recipients, the College will be guided by many criteria, among them the qualities of character and academic competence, acceptance by their contemporaries, and a natural talent for leadership. Winners will be selected on the basis of relative abilities, but the actual amount of the award, ranging from a few hundred dollars to total expenses for four years, will depend upon financial need.

The Charles A. Dana Scholarships

The Dana Scholarships are available at the beginning of the sophomore year and continue through the senior year, provided the recipient continues to fulfill the requirements. Fifteen to twenty sophomores will be appointed Dana Scholars each year. They will be se-

lected at the end of their freshman year on the basis of academic achievement, character and leadership.

Depending on need, each Dana Scholar will receive a grant from $100 to full tuition. Students having no financial need are eligible for appointment as Dana Scholars and will receive a token minimal grant of $100.

Alfred P. Sloan National Scholarship

This scholarship, established by the Alfred P. Sloan Foundation, is available to an entering freshman and carries a stipend ranging in value from $200 to $2,650 a year. The actual amount is dependent upon the financial need of the recipient. The scholarship may be renewed to cover the full four years at Hamilton, provided the Sloan Scholar's record justifies renewal. In selecting the winner of this award, the Faculty Committee on Admission will seek a student who offers a sound academic record together with evidence that he is likely to become a leader in his community, in his future profession or vocation, and in the affairs of the nation.

SCHOLARSHIPS OFFERED IN SPECIFIC AREAS

Illinois

Sons of secondary school teachers in the state of Illinois should note on page 24 the provisions of the scholarships available to them.

New Jersey

The New Jersey Alumni Scholarship, with a value of up to $8,000 over a four-year period, is offered to students attending schools in Bergen, Essex, Hudson, Hunterdon, Middlesex, Morris, Passaic, Somerset, Sussex, Union and Warren Counties.

New York

The ADIRONDACK ALUMNI SCHOLARSHIP, with a value of up to $6,000 over a four-year period, is offered to students attending schools in Clinton, Essex, Franklin, Hamilton, Saratoga, Warren and Washington Counties. Income from an endowment grant made to the College by Milton G. Tibbitts of the class of 1904 provides the funds for this scholarship. It will be available in 1970.

The DANIEL BURKE SCHOLARSHIP is awarded with preference given first to a student from the public high school in Oxford, N. Y., and second, to a resident of Chenango County. If there should be no eligible candidate, then the scholarship may be awarded at large.

In 1970, the ALUMNI ASSOCIATION OF METROPOLITAN NEW YORK SCHOLARSHIP will be offered to students who attend schools in Queens, Nassau or Suffolk Counties, New York. This scholarship will pay up to $8,000 over a four-year period; the exact amount will depend upon the financial need of the recipient.

In certain years, candidates for admission who attend schools in Livingston, Monroe, Ontario, Orleans, Wayne and Yates Counties are eligible to compete for the LIEUTENANT WILLARD B. EDDY, JR., MEMORIAL SCHOLARSHIP, established by Mr. and Mrs. Willard B. Eddy of Rochester, N. Y., in memory of their son. This scholarship carries a value of up to $8,000 over a four-year period and is awarded on the basis of academic achievement and character. It will be available for award in 1970.

The donor of the CHARLES MELVILLE FAY SCHOLARSHIP has specified that preference be given to students from Steuben County, New York, or from the western part of New York State.

In certain years, secondary school students from Cayuga, Cortland, Onondaga, Oswego, and Seneca Counties are eligible for the DAVID SHOVE HASTINGS SCHOLARSHIP, established by Mr. and Mrs. J. Murray Hastings in memory of their son. This scholarship will pay up to $8,000 over a four-year period. This scholarship will be available for award again in 1970.

The CHARLES ANTHONY HAWLEY SCHOLARSHIP was received under the will of Anna H. Story in memory of Mr. Hawley, a former trustee of the College. It gives preference to graduates of schools of Seneca Falls, New York.

The HONORABLE IRVING M. IVES SCHOLARSHIP, founded by the Norwich Pharmacal Company, is awarded in certain years with prefer-

ence given, first, to the son of an employee of the company and, second, to a resident of Chenango County. This scholarship will be available in 1970.

Sons of secondary school teachers in the State of New York should note the provisions of the scholarship which has been made available to them (next page).

Certain special scholarships are reserved by the donors for graduates of specified secondary schools in New York State. The terms of the ELIZABETH R. FITCH SCHOLARSHIP stipulate that preference be given to graduates of the Westmoreland High School. The GEORGE E. DUNHAM SCHOLARSHIP is restricted to graduates of the public high schools within the city of Utica, N. Y., and the A. W. SOPER SCHOLARSHIP to graduates of the Rome Free Academy. The CHARLOTTE FOSTER BABCOCK SCHOLARSHIPS are available, first, to relatives of the donor, Edward S. Babcock of the class of 1896; second, to graduates of the public high schools in Boonville, Camden, Utica, and West Winfield, N. Y.; and finally, to members of Emerson Literary Society.

The MARCUS JUDSON SCHOLARSHIP is reserved for a student from the Presbyterian Church of Watertown, New York.

The AUGUSTA M. LOVENGUTH MEMORIAL SCHOLARSHIP is awarded with preference given, first, to a relative of the family and, second, to a student matriculating from Camden, Oneida County, New York.

In the awarding of the STEPHEN W. ROYCE SCHOLARSHIPS, students from Liberty, N. Y., and Pasadena, Calif., will be given preference.

The LEE N. AND GRACE Q. VEDDER FOUNDATION SCHOLARSHIP is available for award in 1970, with preference given to needy applicants from Montgomery and Fulton Counties.

STATE SCHOLARSHIPS. The University of the State of New York provides in each assembly district a liberal number of Regents College Scholarships, based upon the results of a comprehensive examination given by the State Education Department each year, and yielding from a minimum of $250 to a maximum of $1,000 each year, the actual amount depending upon the financial circumstances of the winner. Successful competitors may enter any approved college within the state. The New York State student will also be able to use his Scholar Incentive Award at Hamilton, ranging in an amount up to $500.

The winning of a state scholarship does not prevent a student from being granted a special or general scholarship by Hamilton College.

Ohio

The TUNNICLIFFE SCHOLARSHIPS are available, first, to students from northwestern Ohio; and secondly, to any student who qualifies for financial aid.

Pennsylvania

Sons of secondary school teachers in the state of Pennsylvania should note the provisions of the scholarship which has been made available to them (see below).

In 1970, the ALUMNI ASSOCIATION OF PHILADELPHIA will offer a scholarship to students who attend schools in the Delaware Valley area. The award will pay up to $8,000 over a four-year period, depending upon the need of the recipient.

Scholarships for Sons of Secondary School Teachers

Hamilton College awards each year three scholarship to the sons of secondary school teachers. One, with a value of up to $8,000 over a four-year period, is offered to sons of secondary school teachers in the state of Illinois. The other two, also with a value of up to $8,000, are offered in the states of New York and Pennsylvania.

SPECIAL SCHOLARSHIPS

Hamilton College offers the following special scholarships for undergraduates who need aid and who meet the requirements set forth by the scholarship donors.

The VIVIAN B. ALLEN SCHOLARSHIPS, founded by the Vivian B. Allen Foundation of New York City, are reserved for students from foreign countries.

The donor of the EDWARD S. BABCOCK SCHOLARSHIP has specified that preference be given to members of Emerson Literary Society.

The ROBERT A. BANKERT, JR., SCHOLARSHIP, established by the family and friends of the late Robert A. Bankert, Jr., of the class of 1970, is awarded annually. Preference will be given to a student who has participated in athletics and who, at the end of his sophomore year, has shown significant improvement in his academic average.

The JAMES L. BENNETT SCHOLARSHIP is awarded to a sophomore who gives evidence of outstanding moral character.

The HARLAN F. CALKINS SCHOLARSHIP, established by the family and friends of the late Harlan F. Calkins of the class of 1929, will be awarded in 1970, at the discretion of the Scholarship Committee, to a student of outstanding character and leadership.

The GEORGE A. CLARK SCHOLARSHIP is reserved for a candidate for the Presbyterian ministry, to be designated by the pastor and session of the First Presbyterian Church of Utica, or by the College.

The donor of the CHARLES HOLLAND DUELL SCHOLARSHIP has specified that it be awarded to a member of the freshman class.

The DR. EDWARD R. FITCH SCHOLARSHIPS IN CLASSICAL LANGUAGES, founded by E. Root Fitch of the class of 1886, are awarded annually to students who are registered for courses in either Greek or Latin (courses in translation not included). The awards are made on the basis of need, scholarship standing, character, and salutary influence on the life of the College.

The E. ROOT FITCH SCHOLARSHIPS, founded by E. Root Fitch of the class of 1886, are awarded annually to members of the Hamilton chapter of Delta Upsilon on the basis of need, scholastic standing, character, and salutary influence on the life of the College.

The GENEVA (N. Y.) PRESBYTERY SCHOLARSHIP is reserved for a candidate nominated by that organization.

The IRENE HEINZ GIVEN and JOHN LA PORTE GIVEN FOUNDATION SCHOLARSHIPS are reserved for students who are preparing for admission to medical school.

The HUGUENOT SOCIETY SCHOLARSHIP, with an annual value of $1,000, is available to a student whose ancestry meets the requirements of the Society and who satisfies the College's regular requirements for the receipt of financial aid.

The donor of the ARTHUR HUNTER SCHOLARSHIP has specified that preference be given to any matriculant from George Watson's College in Edinburgh, Scotland.

The LEAVENWORTH SCHOLARSHIP is available to a student or students bearing the surname of Leavenworth.

The HENRY M. LOVE SCHOLARSHIP, established by William D. Love of the class of 1909, provides a scholarship for relatives of Henry M. Love of the class of 1883, or, when no such relative is in College, may be awarded to a senior in Emerson Literary Society for graduate study leading to a career in law, medicine, journalism, teaching, or theology.

The WILLIAM DELOSS LOVE SCHOLARSHIP was established by William DeLoss Love of the class of 1909, Mrs. William D. Scranton,

and others. In accordance with the wishes of the scholarship donors, preference is given to descendants of William DeLoss Love of the class of 1843.

The terms of the ANNIE L. MAC KINNON SCHOLARSHIP stipulate that preference be given to a student whose record shows ability and interest in mathematics.

The JOHN MAC NAIR SCHOLARSHIP, established by the will of Edna Thirkell Teetor, is reserved for students registered in the "3-2" engineering program. (See page 92.)

The WILLARD BOSTWICK MARSH SCHOLARSHIPS, established by Willard B. Marsh of the class of 1912 in memory of former President Melancthon Woolsey Stryker of the class of 1872, are available to juniors and seniors with financial need who have maintained a scholastic average of at least B since entering the College.

The donor of the CHARLOTTE BUTTRICK SACKETT SCHOLARSHIP has requested that it be awarded to a member of the sophomore class.

The S. B. STEERE SCHOLARSHIP was established for blood relations of the donor. If none appears, preference is given to candidates for the ministry.

GENERAL SCHOLARSHIPS

Any Hamilton undergraduate is eligible to apply for a general scholarship. However, the scholarships were established as an aid for those who find it difficult to meet the cost of a college education and should not be sought by others. These grants are supported in part by the income from the more than seventy scholarship foundations and in part by the general funds of the College. They are awarded on the basis of need, scholarship standing, character, and salutary influence on the life of the College. Stipends range in amount from a few hundred dollars to total expenses for four years, depending on the student's academic record and need. In accepting the assistance of a scholarship, the holder is expected to consider himself pledged to perform all of his college duties creditably, to maintain a high standard of deportment, and to exercise strict economy. The following are the procedures and regulations which govern the awarding of general scholarships.

1. Hamilton is a member of the College Scholarship Service. Each freshman candidate for scholarship aid must file his application with that organization on a form to be obtained from his school. No scholarship application other than that of the College Scholarship

Service need be filed. Upperclassmen candidates for scholarship aid will file their applications directly with the College.

2. Consideration of an application for scholarship aid cannot be given until the candidate has made application for admission to the College. The granting of admission in no way guarantees the granting of a scholarship.

3. Scholarship awards are credited against College bills on a pro rata basis.

4. A scholarship is awarded for a single semester but will automatically be renewed for the second semester of a college year if a student has a C average at the end of a semester, has no failure on his record, and has not been delinquent in attendance. Before a scholarship is revoked, however, the Committee on Financial Aid will take into account any special circumstances which may have interfered with academic performance. In April of each year a new scholarship application must be filed.

5. No scholarship holder may maintain a motor vehicle at the College without the express approval of the Associate Dean.

LOANS

The FRANK BURGESS MEMORIAL FUND was established under the will of Frank Burgess of Utica in 1969. Income from the fund will be loaned to deserving students in need of financial assistance. Ac-

cording to the terms of the will, "Before any loan is granted to any student, said student shall agree to repay the loan so made to him and to begin to make payments on said loan within two (2) years after his graduation or on entering his life work and to complete repayment of said loan within five (5) years after graduation or on entering his life work, with interest at five per cent (5%) per annum to commence at his graduation or on entering his life work."

The THEODORE M. POMEROY LOAN FUND, established in 1916 for the purpose of "assisting worthy young men to acquire an education at Hamilton College," is now valued at about $25,000. The loans are repayable by seniors within three years, interest at three per cent being computed from the time the student leaves college, and by other students before returning to college the following fall with interest at three per cent being charged from the time the loan is made.

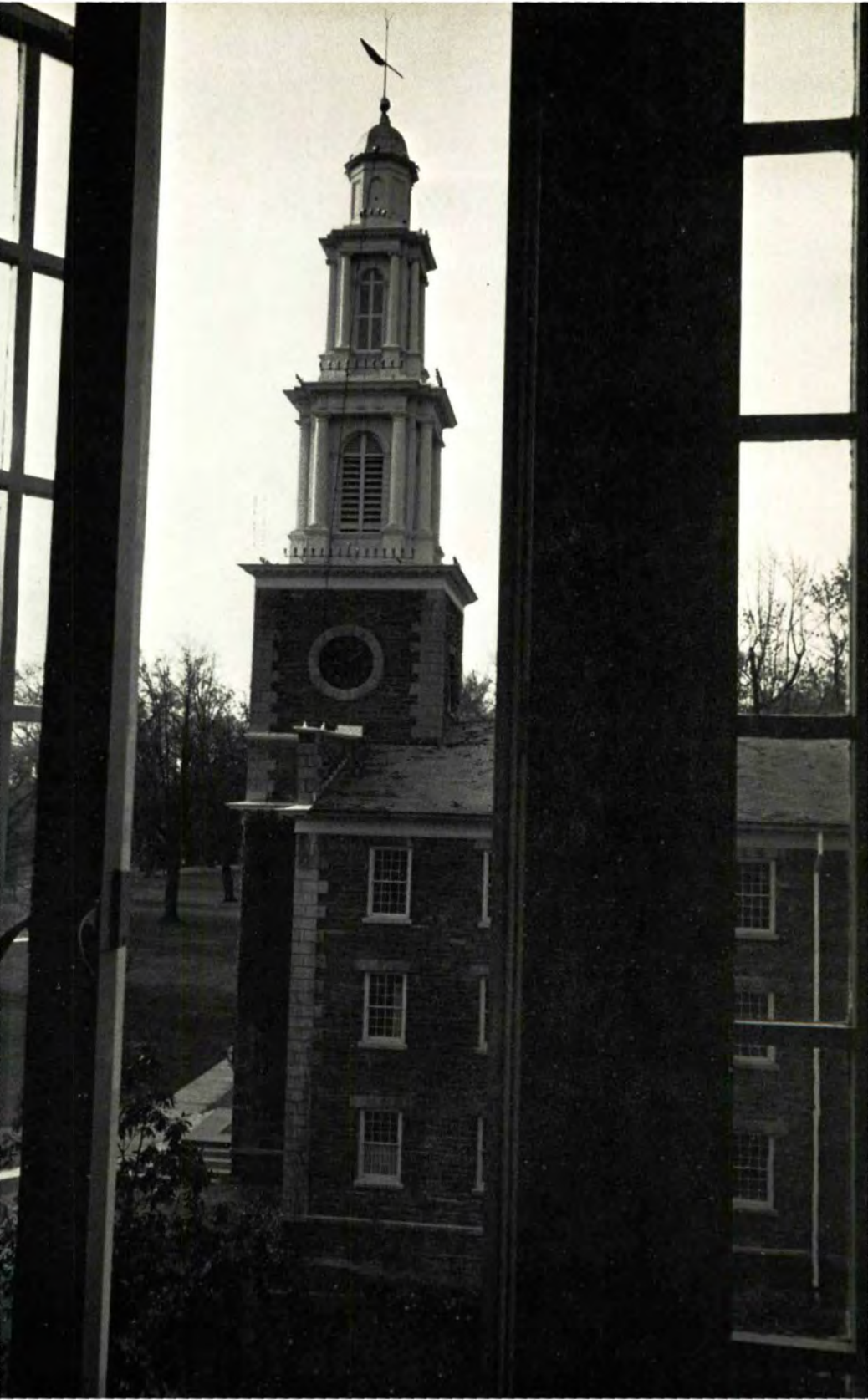
The ELMER C. SHERMAN LOAN FUND, effective in October, 1963, was established under the will of Ida M. Sherman in memory of her husband, a member of the class of 1882. Loans are available to juniors and seniors who demonstrate need and have maintained high scholastic rank during their previous years at Hamilton. No interest is charged on these loans. The entire loan must be repaid within three years after graduation.

Hamilton is a participant in the FEDERAL STUDENT LOAN FUND, established in 1958 by the National Defense Education Act. Any student interested in obtaining a loan under this act should write to the Secretary of Admission.

Loans are also available under the NEW YORK STATE HIGHER EDUCATION ASSISTANCE ACT, by which the State guarantees bank loans to undergraduates. Information about these loans is also available from the College.

STUDENT EMPLOYMENT

The College and community provide opportunities for part-time employment to more than one-third of the student body. Individual earnings range from a few dollars to several hundred, according to the work done. Many of the part-time jobs are assigned by the Committee on Financial Aid to supplement scholarship awards. Other employment possibilities, chiefly odd jobs, are under the supervision of the Placement Office. The fraternity houses on the campus provide jobs which afford board or room for five to ten men each.



ACADEMIC INFORMATION

Academic Program
Courses of Instruction
Planning for a Career

The Academic Program

INTRODUCTION

In September 1969 Hamilton College put into effect a major revision of its curriculum. In place of five courses a semester for four years, the student now takes four courses, and in January devotes his time exclusively to a Winter Study Project. The new graduation requirement is thirty-two semester courses, four Winter Study Projects, and a comprehensive examination in the field of concentration, to be administered in the spring of the senior year.

One of the most noteworthy features of the new curriculum is the abandonment of required work in six prescribed areas of distribution. Under the new curriculum, distributive breadth in the first two years is achieved by the responsible choice of the student in consultation with his adviser. In order to insure a close and articulate relationship between the individual student and the adviser, the College has established a Board of Advisers whose function it is to assist freshmen and sophomores in the development of such programs of study as will best serve their educational interests and needs.

Another special feature of the new curriculum is the Winter Study Program. In Winter Study the student, beginning with the freshman year, will be working on only one project, free of competing demands on his time and attention. The program thus provides all students with an experience of intellectual intensity and focused independence normally beyond the range of the more comprehensive semester course.

As mentioned above, the Board of Advisers and the individual adviser have the task of providing rational and articulate guidance to freshmen and sophomores in the process of course selection and

in the planning of the student's educational program. In designing a more flexible curriculum for its students the College has sought to give the individual student greater responsibility for his own intellectual development. Most particularly, it has endeavored to accelerate and facilitate the freshman's introduction to the variety of learning which characterizes college work and to provide him as early as possible in his college career with a sense of the possibilities of his personal growth.

The Board of Advisers and the Role of the Adviser

Under the new curriculum a freshman will be permitted to take any course for which he is eligible. These courses are described in detail in a "List of Courses Open to Freshmen." This List is distributed to freshmen by the Board of Advisers during the summer before their arrival on College Hill. In addition to catalogue descriptions of courses, information is provided on the content and coverage of the course, the method of instruction and the specific work requirements, such as the number and nature of examinations and papers. The freshman year program reflects the College's confidence in the responsible judgment of its students and its faith in their inner desire for a broad and varied educational experience.

The role of the Board of Advisers and of the individual adviser is vital in a flexible curriculum in which the interests and needs of the student are of such central and decisive importance. While decisions regarding course elections must rest finally with the student, the board generally, and the adviser particularly, offers to the student as a fundamental guideline the proposition that a liberal education entails engaging the mind in studies which are distinguished generally as artistic, literary, philosophical, scientific and societal. While such a proposal cannot specifically dictate a student's choice of courses, it should suggest a standard against which the student may measure his curricular plans.

The system of advising described here makes articulate counseling central to the student's responsible fulfillment of his educational goals. In consultation with his adviser, the student regularly refers his efforts to his educational purposes. Through experience shared with his colleagues on the Board of Advisers, the adviser keeps in informed balance his skills and objectivity as a guide.

The adviser is not a casual or occasional faculty contact for the

Hamilton student. He gives guidance, not direction. So that his guidance may be fruitful for the student, the individual adviser will be joined by two other members of the Board of Advisers in looking over the freshman's record at the end of his first semester at the College. On the basis of that record and more especially on the basis of the student's interests, needs and future study plans, the Board makes to the adviser and to the student whatever recommendations seem to be appropriate.

The aim of a more flexible curriculum is the development of the student's independence as an educated man. It is the student as an individual whom the College has existed to serve and whose personal growth represents the best argument for the continuing need in complex modern society for the relatively small center of liberal learning.

Graduation and Concentration Requirements

In order to qualify for graduation, members of the class of 1973 and subsequent classes will complete thirty-two semester courses, four Winter Study Projects and a comprehensive examination in the field of concentration. The departments under which a student may develop an area of concentration are Anthropology, Art, Biology, Chemistry, Economics, English Literature, French, Geology, German, Government, Greek, History, Latin, Mathematics, Music, Philosophy, Religion, and Spanish. In addition, concentrations in Modern Languages, Theater and Drama, and the History and Culture of South and East Asia are offered.

The normal concentration consists of four year or eight semester courses within a department. The department may specify particular courses to be required. Interdepartmental concentration may be arranged with the approval of the department concerned and the Academic Council.

The concentration in MODERN LANGUAGES requires the completion of two 20-level courses in each of two modern languages and the completion of an advanced literature course in one of them.

A concentration in THEATER AND DRAMA may be selected with the approval of the appropriate interdepartmental faculty committee. The concentration will consist of eight semester courses, including two semesters in acting and directing and such other courses, particularly those in dramatic literature, as the committee approves.

A concentration in the HISTORY AND CULTURE OF SOUTH AND EAST ASIA may be selected with the approval of the appropriate interdepartmental faculty committee. The concentration will consist of eight semester courses from at least two departments. It will include History 14, 15, and such other courses as the committee approves.

A student selects his area of concentration at the end of his sophomore year. He must have completed at least a year course at Hamilton in the department in which he wishes to concentrate and must have received an average of 70 or higher for the two semesters combined and for any additional courses he may have taken in the proposed department of concentration. For unusual circumstances a department has the authority to waive this rule. A student who is not eligible for an area of concentration at the end of his sophomore year will be dropped from College.

The courses planned to satisfy the concentration requirement must be approved by the department at the time of election, and all subsequent changes of course elections within the area of concentration require the approval of the department. Students may change areas of concentration only with approval of the departments concerned and the Dean. Each student is required to take at least one course during his senior year in the department under which he is concentrating.

The Winter Study Program

Under the new curriculum, the first semester's work ends before Christmas and the semester final examinations are taken before the holiday recess. Upon his return to the campus in January, the student will find a change of pace and an opportunity for independent work. This he will pursue in an organized and guided way in one Winter Study Project. The purpose of the project is to serve interests not commonly served in regular courses, to indulge and cultivate intellectual curiosity. Some projects have prerequisites, while others do not. The keynote of the projects is experimentation in learning rather than the meticulous coverage of chronologically or topically arranged material necessarily typical of regular courses.

The Winter Study Program was adopted in recognition of the fact that breadth and depth, while vital components of a liberal education, do not constitute the only objectives of the student or of the

faculty member in their common pursuit of learning. There is a third dimension in this pursuit. That dimension is intensity, the chief source of which must come from within the student, developing most productively in a mutuality of effort and commitment between student and teacher. The Winter Study Project itself is thus a device whereby the teacher places some of his special knowledge and personal interests at the disposal of the student's curiosity. It is also a device by which the student and the teacher may test their sensitivity to the world and to learning in a particularly sustained, conscious and organized interaction. Ultimately the soundness of the Winter Study Project depends upon the degree to which it nourishes the student's sense of personal responsibility for the formation of his mind and for his capacity to inquire and to understand on his own.

TYPES OF PROJECTS. Generally, there are two basic kinds of Winter Study Projects. These are: 1) Study in depth of a single problem or theme in a given discipline or disciplines; and 2) well-defined study of a field of special interest in a given discipline or disciplines.

A project is not a course in the conventional sense. Inquiry should aim at depth rather than at breadth of coverage. There are three additional criteria to be met in the drafting of projects. These are: 1) That the project should offer some opportunity for independent work; 2) that the project should be completed or satisfactorily advanced toward completion in a month's time; and 3) that the project should lead to some basis for evaluation, such as a paper or a report of an experiment.

ESTABLISHING A WINTER STUDY PROJECT. Generally, individual members of the faculty will define projects through their departments. Projects thus defined will be submitted to the Committee on Academic Policy for consideration and finally to the faculty for action.

For the faculty member the Winter Study Project should provide an opportunity to make active pedagogical use of his own special interests and expertise, to do something in his own specialty.

Groups of students may define a project provided it is acceptable to a faculty member who is scheduled to direct it in a particular January. Such projects are subject to approval by the Winter Study Committee.

An individual student working on an Independent Study project may request permission to continue his Independent work during January. If the project is to continue after January, it must be certifiable as having made Satisfactory progress during the Winter Study

period in order to satisfy the requirements of the Winter Study Program.

WINTER STUDY RULES. Certain rules have been adopted governing the administration of the Winter Study Program. These are:

1) *Election of Projects.* To insure elective breadth as well as depth, in the first two years the student will elect his Winter Study Projects in two different departments, in one of which he will have taken no course at Hamilton.
2) *Grading.* Winter Study Projects will be graded Unsatisfactory, Satisfactory and Honors. The number 70 will serve as the base for a rating of Satisfactory. The grade will not be counted in determining the grade point average.
3) *First Meetings.* Failure to attend the first meeting of a project will result in exclusion of a student from all Winter Study in a given period and a rating of Unsatisfactory in that period.
4) *Failure.* The failure of a Winter Study Project will be made up on the basis of arrangements made between the Winter Study Committee and the student involved, subject to approval by the Board of Advisers for freshmen and sophomores and by the adviser for juniors and seniors. Consideration of the student's Winter Study record by the Board of Review may result in separation from College.

REPRESENTATIVE PROJECTS. The nature and variety of the Projects approved for Winter Study in January 1970 are exemplified in the following partial list:

Anthropology: Religion as a dynamic force in modernizing societies.

Art: Life drawing and painting.

Astronomy: Elements of astronomy.

Biology: Marine biology; social implications of modern biological discoveries; microtechnique.

Chemistry: Concepts and principles of chemistry; acids and bases; photochemistry.

Economics: Marx as an economist; poverty in the United States and its alleviation; managerial decision making.

Education: Observation of and participation in secondary school teaching.

English: Pope and his critics; Victorian fiction; biography; classical American literature: the black view; the poet in the poem; the playwright as adapter.

French: Major themes in the prose of Albert Camus.

Geology: Problems in sedimentology.

German: Rainer Maria Rilke's work and thought; professional translating.

Government: Africa: heritage and reality; recent developments in the constitutional guarantees of liberty.

History: Feudalism in history; the writer in nineteenth century Russian society; the black man in America.

Mathematics: Computer applications.

Music: Mozart opera; eurythmics.

Philosophy: Equality, liberty and human rights.

Physics: The physics of music; space, time and physics.

Psychology: The outer dimensions of consciousness.

Religion: The Second Vatican Council; religion and revolution.

Speech: The Negro orator in America; the rhetoric of protest.

Theater: The art of the mime.

Standards for all Written and Oral Work

The College requires minimum standards of correctness in all written work. The faculty enforces this requirement by refusing to accept for grading prepared work which is below standard and by penalizing examinations and other written work for gross errors in English.

The College also requires minimum standards of performance in all prepared oral presentations. The faculty enforces this requirement by penalizing oral presentations, particularly by juniors and seniors, which do not meet acceptable standards of clarity, organization, and effectiveness.

The Comprehensive Examination

In order to qualify for graduation every senior is required to pass a comprehensive examination in his department of concentration. These examinations, which test the student's grasp of his field of concentration, are given by the department in the spring term and may include oral as well as written examinations. The Graduate Record Examination in the major subject, administered by the College before spring recess, may also be required.

If a student does not pass the comprehensive examination, he will not be graduated with his class. If he meets all other requirements for graduation, he will be granted a re-examination which may be taken either during the last two weeks of the following September by arrangement with the department or at the next regularly scheduled time for comprehensive examinations. No student will be granted more than one such re-examination. A fee of $50 is charged for this second examination.

Grade Requirement

To qualify for graduation a student must attain a grade of 70 or higher in at least one half of the work completed at Hamilton.

A student must also attain an average of at least 70 in all courses taken at Hamilton in his department of concentration which qualify for that concentration. For an interdepartmental concentration the average must be at least 70 in courses approved for the concentration. A senior who fails to make the required average will have no further opportunity to qualify for a Hamilton degree.

All courses are graded each semester on a scale of 100. A grade of 90 or above is reported as A; 80-89, B; 70-79, C; 60-69, D; 40-59, F; and below 40, FF. The passing mark is 60.

When Independent Study is carried as a year course, the grade reported at the end of the first semester is tentative. The grade assigned by the instructor at the end of the second semester becomes the final mark for both terms. With this exception all final semester grades are permanently recorded and may not be altered.

To qualify for graduation, a senior must pass all courses taken in the final semester of his senior year.

Pass-Fail

In order to encourage greater student experimentation in course elections, the faculty has adopted an arrangement under which the student may elect four semester courses over the four years on a pass-fail option, but no more than one in any given semester.

The pass-fail option will be subject to the following rules:

1) No freshman will be permitted to use the pass-fail option in his first semester.

2) The instructor will not be informed of what specific students are taking his course on the pass-fail option, unless he requests such information.

3) The student must inform the Dean of his intention to use the pass-fail option no later than the deadline for course changes.

4) The pass-fail option cannot be used in the student's department of concentration in his junior or senior year.

5) Pass will be equivalent to the lowest passing grade or better.

6) Pass-Fail will not be included in the student's average.

7) Although the instructor reports a regular grade, the student's record will carry either a pass or a fail as appropriate.

Residence Requirement

To earn a degree from Hamilton a student must be in residence for at least two years (16 courses and two Winter Study Projects) and must spend his final semester in residence.

Acceleration

The normal time required to complete study for the degree is four years. For the exceptional student with proper motivation and the willingness to undertake summer study, acceleration is possible so that the degree may be obtained in three years. A student wishing to accelerate must apply to the Academic Council for permission to do so not later than the end of the first semester of his sophomore year. The Council will consider both the advisability of acceleration and the means of achieving it. Approval will be granted only to students whose academic ability and personal maturity are adjudged satisfactory. It is a guiding principle that students with less than a B average are not eligible for acceleration.

Physical Education Requirement

To qualify for graduation a student must complete four semesters of work in Physical Education. These must be taken during the first two years.

Suspension from College

Hamilton College reserves the right, at any time, to suspend for any period or to separate from the College any student whose academic performance or personal conduct, whether on or off the College campus, is, in the sole judgment of the College, unsatisfactory or detrimental to the best interests of the College without assigning any further reason therefor. Neither the College, nor any of its trustees, officers, faculty or administrative staff shall be subject to any liability whatsoever on account of such suspension or separation. A student who is separated from the College or resigns is required to cease residing on the campus within forty-eight hours, unless permission to the contrary is granted by the Dean.

Honorable Dismissal

A student who withdraws from College during the academic year will be entitled to honorable dismissal only if he clears the withdrawal with the Dean and with such departments or offices as the Dean may direct.

Study Abroad

Qualified students may, with the approval of the faculty, spend the junior year studying in any foreign country and receive full credit toward a Hamilton degree. Those who are interested should consult the Dean during the first semester of the sophomore year.

Hamilton College Junior Year in France

Hamilton College sponsors a Junior Year in France program. Enrollment in the program is limited to students who, for reasons of their preparation and interests, will benefit the most by studying French language and civilization. To qualify, students must have an over-all B average by the end of their sophomore year. The program, directed in France by a member of the Department of Romance Languages, begins with a six-week session in Biarritz in September and October; students then move to Paris for the balance of the academic year.

Hamilton College Semester in Washington

Hamilton College offers a semester program in Washington, D. C., for qualified juniors and seniors. The program is directed by a resident member of the Department of Government. It consists of internships in federal legislative and executive offices, as well as a regular seminar program which requires independent research and writing. Students are responsible for their own living arrangements. The program is limited to 15 students and is given each fall term. It is designed for students who have demonstrated ability to work on their own initiative, and who have particular interest in the problems of government and public affairs.

Independent Coverage of Course Work

In support of the belief that the undergraduate should be encouraged to assume responsibility for his own education, it is possible for an able and ambitious student to study by himself the material of a course, and, upon demonstration of mastery of the subject, to receive certain academic privileges. Such study is usually done during the summer. The student must secure permission in advance by formal petition approved by the department concerned and the Academic Council. Certification of achievement likewise requires recommenda-

tion by the department and approval by the Council.

The following academic advantages are available through this independent work:

1) Waiving of course prerequisites, thus allowing the student to move more rapidly into advanced courses.

2) Attainment of course credit toward a degree.

3) Attainment of course credit for a course failed, without repeating class attendance in the course. The original failing grade, however, remains on the record.

Credit under 2) and 3) is granted only after a formal written examination administered by the department concerned. A fee of $60, not refundable under any circumstances, is charged for the privilege of taking this examination.

Independent Study

This is a program for selected juniors and seniors who wish to carry on independent study at an advanced level. Students will be expected, in lieu of a regular course, to work steadily on a project or a reading program. Petition for admission to this program will be submitted to the Dean's Office. As a prerequisite, the student must have at least two courses in the department in which he proposes to work, and the approval of the chairman of that department. No student may pursue more than one program of Independent Study in a year.

Coordinate Program with Kirkland College

Kirkland College, a four-year residential college for women, opened in the fall of 1968 on land adjacent to the Hamilton campus. By 1972, its total enrollment will be approximately 600 undergraduates. Kirkland, which has a separate board, faculty and administration, is the first of a number of coordinate colleges Hamilton plans to sponsor in the indefinite future. In this way, Hamilton expects to be able to retain its small size and traditions while increasing and enriching its total intellectual community.

Hamilton and Kirkland share a number of Hamilton facilities, particularly its main Library and science laboratories.

Most important, however, the courses of each college are open to students in the other. For a list of Kirkland courses open to Hamilton students, see pages 87-89.

Cooperative Engineering Program

See page 92.

Cooperative Program with Princeton University

Upon the recommendation of the department of concentration and with the approval of the Academic Council, Hamilton students may spend the junior year at Princeton University in the Cooperative Undergraduate Program for Critical Languages. Upon satisfactory completion of the approved course of study, they will be granted appropriate credit toward the Hamilton degree.

Cooperative Program with Colgate University

With the approval of his department of concentration and the Academic Council, a Hamilton College student may, during the academic year, take course work at Colgate University for credit toward his degree. On a similar basis, Hamilton students have an opportunity to participate in Colgate off-campus programs such as the study groups in residence in Washington, D. C., Argentina, and the London School of Economics.

ACADEMIC REGULATIONS

Course Elections

Courses for the next year are chosen in the spring of the freshman, sophomore, and junior years. Elective cards must be left at the Dean's Office by a designated date in April. A fee of two dollars, increased by one dollar for each day of delay, will be charged for tardy election of courses.

After pre-registration, a student may change his program of study only by permission of the Academic Council. Normally, no change is permitted after the first week of a semester. The Council will, however, consider requests to drop one course during the first half of the semester without incurring a failing grade. After that time a course may be dropped only with a grade of FF unless there are extraordinary circumstances involved.

A student may take any course offered to his own or a lower class

if he has satisfied its prerequisites, except that seniors may take an 11-12 course only with the permission of the department chairman.

Summer School Credits

To insure proper supervision and validation, a student who desires to receive credit for work done in a summer school should submit his program in advance for approval by the appropriate departmental officer and the Academic Council. Only summer session courses which are passed with a grade at least one level higher than the lowest passing grade are entitled to transfer credit.

Degrees

All students receive at graduation the degree of Bachelor of Arts. Degrees in course are conferred only upon those who are present to receive them, unless the faculty has taken special action authorizing their award *in absentia.*

Courses of Instruction

COURSE NUMBERING

FOR EACH COURSE, in general, the numbering indicates its level, the semester in which it is offered, and whether it is a semester or year course.

Normally, courses numbered 11-19 are taken by freshmen; 21-29 by sophomores; 31 and above, by juniors and seniors. This is not, however, a rigid differentiation.

For the most part, odd-numbered courses are offered in the first semester and even-numbered courses in the second. However, as indicated, there are numerous exceptions. Many semester courses are offered in both regular terms. For an exact listing for any term a published schedule should be consulted.

A single number preceding a course description (*e.g.*, 25) indicates that the course may be elected for a single semester. Most offerings are of this type. Two numbers separated by a hyphen (*e.g.*, 11-12) indicate that normally the course will be elected throughout the year. For such courses a student may not enter the second semester without having taken the first.

A course designated as open to a certain class (*e.g.*, "Open to sophomores") is also open to all higher classes. A course with no statement concerning class eligibility is open to all students.

Unless otherwise stated, as for science laboratory courses, all courses meet for three 50-minute periods a week, or the equivalent, such as two 75-minute periods.

ANTHROPOLOGY

Messrs. Jones (*Chairman*) and Mines

A concentration in Anthropology consists of 13, 14, and six other

semester courses. With the permission of the Department, the student may substitute no more than two semester courses above the introductory level selected from the following: Economics, Government, History, Psychology, and Sociology.

13. *Introduction to Cultural Anthropology.* Cross-cultural approaches to the study of social structure, polity, economic behavior, and belief systems. Anthropological methods of analysis of nonliterate, peasant and complex contemporary societies. Prerequisite for all other courses. The Department.

14. *Social Organization.* An extension of topics discussed in Anthropology 13 with a special emphasis on various theories of social structure and social organization in cross-cultural perspective; kinship, social stratification, plural societies, conflict and disorganization. Prerequisite, 13. The Department.

23. *Peoples and Cultures of Latin America.* Patterns of culture and society in Central and South America. Special emphasis will be placed on contemporary studies of peasant and urbanizing societies and their Iberian foundations. Prerequisite, 13. (Alternates with 25.) Mr. Jones.

24. *Peoples and Cultures of South Asia.* Tradition and change in the cultures and societies of Pakistan, India, and Ceylon. Rural-urban interaction, Indian minorities in the Hindu social context, and selected tribal cultures. Prerequisite, 13. (Alternates with 26.) Mr. Mines.

25. *Peoples and Cultures of the Caribbean.* The cultural heritage of European colonial settlements in the Caribbean and in the surrounding area. The cultural impact of slavery, changing forms of slavery, changing forms of plantation agriculture and society, family forms, the formation of plural societies and their current role in nationalization processes, the integration of indigenous cultures, and religious cults. Prerequisite, 13. (Not offered in 1969-70.)

26. *Indians of North America.* This course will examine various cultures and societies of the United States and Canada. The history of U. S. and Canadian policy toward the American Indian; the American Indian today. Prerequisite, 13. (Not offered in 1969-70.)

31. *Culture Change.* A broad approach to the study of dynamic process in culture and society. Theories of cultural evolution, social movements, innovation, and modernization. Prerequisite, 13. Mr. Jones.

32. *The Anthropology of Development and Modernization.* An extension of Anthropology 31 with stress on the impact of economic development on traditional societies. The impact of agricultural development, the cultural bases of commercial innovation, community development, urbanization, and the industrial transformation. Prerequisites, 13 and 31. (Alternates with 42.) The Department.

41. *Political Anthropology.* Systems of power and authority in traditional and modernizing societies. Institutional bases for the resolution of conflict; cross-cultural studies of war and aggression; factionalism and local-state political networks. Prerequisite, 13. Mr. Mines.

42. *Theory in Anthropology.* An analysis of historical and contemporary theoretical developments in anthropology during the past century. Stress will be placed on current theoretical and methodological interests; British and French structuralism, formal analysis, symbolism, and cultural ecology. Prerequisite, 13. (Not offered in 1969-70.)

ART

Messrs. Parker (*Chairman*) and Penney

A concentration in Art consists of eight semester courses, including 11-12.

11-12. *Creative Painting and Drawing.* Lectures and demonstra-

tions of the methods and materials employed by professional artists coordinated with the individual student's work. Open to approved freshmen. Credit, three hours each semester for nine studio hours. Mr. Penney.

21-22. *Advanced Painting and Drawing.* Figure, landscape, and still life painting and drawing in various media. Special projects assigned. Prerequisites, 11-12 and the instructor's consent. Credit, three hours each semester for nine studio hours. Students to supply their own materials. Mr. Penney.

23-24. *Introduction to the History of Art.* A survey of the more important monuments and periods. First semester: from prehistoric times through the Middle Ages. Second semester: from the Renaissance to the present. Open to sophomores. Mr. Parker.

31. *Modern European Art.* The leading figures and movements in European art from the eighteenth century to the present. Prerequisite, 23-24. Constitutes a year course with 32. Mr. Parker.

32. *Principles of Art.* Formal analysis of works of art, methodology of art criticism, and an examination of contemporary trends in empirical aesthetics. Prerequisite, 31. Constitutes a year course with 31. Mr. Parker.

33-34. *Renaissance Painting, Architecture, and Sculpture.* First semester: the Renaissance in Italy. Second semester: the Renaissance in Northern Europe and Spain. Prerequisite, 23-24. Students are strongly advised to take History 35-36 concurrently. Alternates with 35-36. Mr. Parker.

35. *Fundamentals of Architecture.* Architectural monuments of all periods with special emphasis on structure, plans, utility, and style. Prerequisite, 23-24. Alternates with 33. Constitutes a year course with 36. (Not offered in 1969-70.)

36. *American Art.* From Colonial times to the present. Prerequisite, 23-24. Alternates with 34. Constitutes a year course with 35. (Not offered in 1969-70.)

BIOLOGY

Messrs. Gerold (*Chairman*), J. Ellis, Chiquoine, McManus, and Erickson

A concentration in Biology consists of eight semester courses in Biology, four semester courses in Chemistry, and two semester courses in Physics. A course of study taken at a field station and approved by the Department may be used as one semester course toward the concentration requirement.

11. *General Biology.* An introduction to the study of life at the level of the organism and the ecosystem. Emphasis is on the variety of life; the functions and adaptations of organisms; homeostasis; ecological relationships; and evolutionary history. A knowledge of secondary school chemistry, or its equivalent, is assumed. Three class periods and one laboratory period per week. Independent laboratory work is assigned in addition to the regular laboratory period. Mr. McManus and staff.

12. *General Biology.* A study of the molecular basis of living systems; the structure and function of cells; respiration; photosynthesis; heredity; development; and the genetic mechanisms of evolution. Three class periods and one laboratory period per week. Independent laboratory work is assigned in addition to the regular laboratory period. Prerequisite, 11 or the consent of the instructor. Mr. Ellis and staff.

21. *Vertebrate Organization.* A study of historical and functional aspects of vertebrate organization and of the control mechanisms which maintain it. Mammalian organization is emphasized. Three class periods and three hours of laboratory a week. Prerequisites, 11-12. Mr. Chiquoine.

22. *Embryology.* A study of avian and mammalian embryogenesis and of the developmental anatomy of mammalian organ systems. Class periods are primarily concerned with contemporary problems in developmental biology. Three class periods and three hours of laboratory a week. Prerequisite, 21. Mr. Chiquoine.

23. *Genetics.* The general principles and techniques of heredity and their bearing on reproduction, the determination of sex, variations, disease, and evolution. Both plants and animals are considered. Three class periods and one laboratory period per week. Individual laboratory problems, to be carried on outside of the regular laboratory period, and reports on special topics will be assigned. Prerequisites, 11-12. Mr. Ellis.

26. *General Ecology.* An investigation of the factors that determine the distribution and abundance of plants and animals. The relationships of ecological principles to the activities of man are stressed. Two class periods and two hours of laboratory or field exercises per week. In addition, each student investigates an individual ecological problem throughout the course. Prerequisites, 11, 12. Mr. McManus.

31. *Physiology.* A study of the fundamental problems of general

physiology and the functions of the organ systems of animals. Two class periods and four hours of laboratory per week. Prerequisite, 21 and Chemistry 11 and one other semester course in Chemistry. Mr. Gerold.

32. *Experimental Biology*. Readings, conferences, and laboratory work on problems of experimental biology. Prerequisite, four semesters of Biology and consent of a member of the Department. The Department.

34. *Histology*. An analysis of the structure, function and composition of mammalian tissues. The laboratory exercises include microtechnique and tissue identification. Two class periods and four hours of laboratory per week. Prerequisites, 21, 22. Mr. Gerold.

35. *Biochemistry*. The chemistry of biological compounds including carbohydrates, amino acids, proteins, lipids and nucleic acids. Pathways of the synthesis and degradation of cell constituents of living systems. Two class periods and four hours of laboratory per week. Prerequisites, 11, 12 and Chemistry 23-24. Mr. Erickson.

36. *Microbiology*. The nature of bacteria, fungi, actinomycetes, viruses, rickettsiae, protozoa and algae. The isolation and study of pure cultures of microorganisms. Two class periods and four hours of laboratory per week. Prerequisite, 35. Mr. Erickson.

CHEMISTRY

Messrs. Yourtee (*Chairman*), Denney, Kinnel, Sutter, and Boggs (Kirkland)

A concentration in Chemistry consists of 11 or 15, 16, 23-24, 33-34, and two semester courses chosen from 37, 38, 41, 42, or 44; Physics 11-12 or 13-14; and Mathematics 21-22.

11. *General Chemistry*. An introductory study of fundamental concepts and principles of chemistry together with selected applications. The laboratory emphasizes quantitative measurement and analysis. Three class periods and three hours of laboratory a week. Credit not allowed for both 11 and 15. Mr. Yourtee.

12. *General Chemistry*. A further study of fundamental principles and applications. The laboratory includes an introduction to inorganic qualitative analysis. Three class periods and three hours of laboratory a week. Prerequisite, 11, or 15 and consent of the instructor. Mr. Yourtee.

15. *Chemical Principles*. A study of selected chemical principles and an introduction to quantitative analysis. Recommended for stu-

dents with better than average preparation in chemistry. Three class periods and three hours of laboratory a week. Credit not allowed for both 11 and 15. Prerequisite, consent of the Department. Mr. Sutter.

16. *Introductory Physical Chemistry*. An introduction to thermodynamics, chemical kinetics, electrochemistry and the chemical bond. The laboratory includes the application of physiochemical principles in quantitative analysis. Three class periods and three hours of laboratory a week. Prerequisite, 15, or 11 and consent of the instructor. Mr. Sutter.

23-24. *Organic Chemistry*. The extension of chemical principles to the chemistry of carbon compounds, with examples from both aliphatic and aromatic chemistry. Three class periods; four hours of laboratory a week. Prerequisite, 12 or 16. Mr. Kinnel.

33-34. *Physical Chemistry*. A study of the laws governing the behavior of physicochemical systems and the theories and models proposed to explain them. Three class periods and three hours of laboratory a week. Prerequisites, 16, Physics 11-12 or 13-14, Mathematics 21-22. Mr. Denney.

33a-34a. Same course as 33-34 but without the laboratory. Not acceptable for a concentration in Chemistry. Mr. Denney.

37. *Physical Organic Chemistry*. An examination of recent topics in stereochemistry, reaction mechanisms and molecular rearrange-

ments, and their quantitative aspects. The laboratory is devoted to the systematic identification of organic compounds. Two class hours and four hours of laboratory a week. Prerequisites, 23-24 and 33-34. Messrs. Kinnel and Boggs.

38. *Chemistry of Natural Products.* A study of the chemistry of selected natural products including steroids, alkaloids and proteins. Three class hours and three hours of laboratory a week. Prerequisite, 23-24. Messrs. Kinnel and Boggs.

38a. Same course as 38 but without the laboratory. Mr. Kinnel.

41. *Chemical Instrumentation.* A study of the principles of instrumentation and their application to the characterization of chemical systems. Two class periods and four hours of laboratory a week. Prerequisite, 33-34. Mr. Denney.

42. *Inorganic Chemistry.* A consideration of theories of chemical bonding, modern coordination chemistry, and related subjects. Laboratory work includes inorganic preparative techniques and the study of the properties of selected compounds. Three class hours and three hours of laboratory a week. Prerequisite, 33-34. (Not offered in 1969-70.)

42a. Same course as 42 but without the laboratory. (Not offered in 1969-70.)

44. *Quantum Mechanics and Spectroscopy.* A study of the principles of quantum mechanics with particular emphasis on the motions of simple molecules and their manifestations in molecular spectroscopy. Three class periods a week. Prerequisite, 33. Mr. Sutter.

CINEMA

11. *Introduction to Cinema Art.* Study of important films; lectures and discussions; special projects in film-making. Enrollment limited to 15. Mr. Moraud.

CLASSICAL LANGUAGES

Messrs. Mattingly (*Chairman*) and Cunningham

GREEK

A concentration in Greek consists of eight semester courses as approved by the Department.

11-12. *Elementary Greek.* Thorough grounding in grammatical forms and syntax. Written and oral exercises, leading to the trans-

lation of easy passages from Plato and Herodotus. Mr. Cunningham.

21-22. *Intermediate Greek.* Plato's *Apology* and *Crito.* Selections from the lyric poets. Several books of Herodotus. Some attention given to the history of Greek literature and to prosody. Prerequisite, 11-12 or its equivalent. Mr. Cunningham.

31-32. *Greek Drama.* Intensive study of one play each of Euripides, Sophocles, and Aeschylus, followed by rapid reading of other tragedies. Aristophanes similarly studied. Prerequisite, 21-22. (Not offered in 1969-70.)

33-34. *Advanced Reading.* Extensive reading in prose writers and poets, according to the needs and interests of the students. Prerequisite, 21-22. Mr. Cunningham.

LATIN

A concentration in Latin consists of eight semester courses as approved by the Department.

11-12. *Introductory Course in Latin Language and Literature.* First semester: review of forms; translation of simple prose; emphasis upon comprehension of the sentence and systematic mastery of vocabulary. Second semester: reading in such prose authors as Sallust, Pliny, Seneca; emphasis upon the student's comprehension of connected prose. Open to freshmen with secondary school preparation; without secondary school preparation, admission with consent of instructor. (Not offered in 1969-70.)

21-22. *Readings in Latin Prose Writers.* First semester: emphasis upon comprehension of the sentence and the mastery of vocabulary; the rendering into English prose of such writers as Horace, Ovid, Cicero, Propertius. Second semester: continuation of the work of the preceding semester with some study of rhetorical theory and more attention to the historical background of the authors read. Prerequisite, 11-12 or satisfactory secondary school preparation. Mr. Mattingly.

31-32. *Latin Prose and Poetry: Satire, Epigram, and the Historians of the Silver Age.* Translation, study of metrical forms, reading in secondary sources. Prerequisite, 21-22 or the instructor's consent. Alternates with 33-34. (Not offered in 1969-70.)

33-34. *Latin Prose and Poetry: Lyric, Elegiac, Epic, and Apuleius.* Translation, study of metrical forms, ancient literary criticism. Prerequisite, 21-22 or instructor's consent. Alternates with 31-32. Mr. Mattingly.

ANCIENT CIVILIZATION

11-12. *Greek Literature in Translation.* Intensive study of some of the works of Homer, Herodotus, Aeschylus, Sophocles, Euripides, Thucydides, and Plato. Attention given to the history of Greek literature and to the ethical, political, and religious ideas of the Greeks. Open to freshmen and sophomores only. Alternates with 21-22. (Not offered in 1969-70.)

21-22. *Greek Historical and Political Thought.* The history of the fifth century B.C., studied chiefly from the literary sources in translation. In the second semester, the political theories of Plato, Aristotle, and others, interpreted in the light of Greek history. Particular attention is given to the correlation between political theory and political practice, and to forms of government both as abstract entities and as ideals that govern human behavior. Alternates with 11-12. Open to sophomores. (Not offered in 1969-70.)

25-26. *Platonism and Aristotelianism in the Graeco-Roman World and the Early Middle Ages.* Plato's and Aristotle's careers as scientists, social theorists, and educators will be studied in terms of translated selections from their writings. Their importance as the formulators of patterns of thought which dominated European culture for many centuries will be brought into focus and illustrated in translated selections from the writings of those who continued or propagated their teaching. Mr. Mattingly.

27. *Greek History.* The origins of Western civilization from their beginnings in the prehistoric period of Greek history through the Alexandrian Age and the early contacts with Rome. Mr. Cunningham.

28. *Roman History.* A survey of the development of the Roman State from its origin as a diminutive Etruscan dependency to the dissolution of its empire through the barbarian incursions. Chief attention on the late Republican and early Imperial periods. Mr. Cunningham.

COMPARATIVE LITERATURE

Mr. Colby

31-32. *European Humanism.* A study of the development of humanistic thought from early modern times to the present, based on great works of European literature read in translation. Open to juniors and seniors who have completed at least two semesters in the study of either English or foreign literature.

ECONOMICS

Messrs. Wertimer (*Chairman*), Carovano, Butler, and McCown

A concentration in Economics consists of 11, 21, 31, 32 and four other semester courses.

11. *Introduction to Economics.* An introductory discussion of the economic problems faced by a society and the means by which they may be solved, with emphasis upon the American economic system. Offered both semesters. The Department.

21. *Applied Statistics.* An introductory discussion of statistical techniques used in the analysis of business and economic data. Topics covered include descriptive statistics, statistical inference, regression and correlation, index numbers, and analysis of time series data. Mr. McCown.

23. *Accounting.* An elementary study of how the financial records of a business firm are usefully classified, analyzed, and interpreted. Emphasis is placed on the theory and function of accounting with bookkeeping techniques introduced as a means to this end. Mr. Wertimer.

24. *Corporation Finance.* Forms of business organization with predominant emphasis on the modern corporation, its nature and financial problems. Mr. Wertimer.

25. *Industrial Organization and Public Control of Business.* The structure, conduct and performance of American industry; the application and interpretation of the anti-trust laws; detailed study of selected current problems of intervention. Prerequisite, 11 or consent of the instructor. Mr. Butler.

26. *Industrial Relations.* A study of social and economic problems centering on American labor and the employer-employee relationship; collective bargaining; the labor market; wage theory and public policy; labor relations legislation; a brief history of unionism; the role of trade unionism in a democracy. Prerequisite 11-12 or consent of the instructor. (Not offered in 1969-70.)

28. *Comparative Economic Systems.* A comparison of the principal types of economic systems with particular reference to American capitalism, the Soviet system, and liberal-democratic socialism. Prerequisite, 11 or instructor's consent. (Not offered in 1969-70.)

31. *Macroeconomic Theory.* National income accounting, the theory of income determination, the requirements for sustained economic growth, business cycle theory. Prerequisite, 11 and consent of the instructor. Mr. Carovano.

32. *Microeconomic Theory.* Applications of supply and demand analysis, theory of consumer behavior, theory of the firm, market structure, theory of resource pricing and allocation. Prerequisite, 11. Mr. Butler.

33. *International Economics.* The relation of international trade to the national income, economic welfare and rate of growth of the world's trading nations. The structure of world trade. Current issues of commercial policy. International monetary problems. International economic cooperation. United States international economic policy. Prerequisite, 11. Mr. McCown.

34. *Economic Development.* Problems facing economically underdeveloped countries as they attempt to stimulate rapid economic expansion. A theoretical analysis of economic development. Case studies of selected countries. The impact of world economic development on the United States. The contribution of the more highly developed nations towards the growth of underdeveloped countries. Prerequisite, 11. Mr. McCown.

35. *Money and Banking.* The monetary aspects of the modern economy, with special reference to the organization of banking in the United States and to the theory of money. Prerequisite, 11. Mr. Wertimer.

36. *Public Finance.* A study of government spending, taxing and borrowing, with emphasis upon their economic effects. Prerequisite, 11. Mr. Carovano.

41. *Seminar in Economics.* Discussion of contemporary developments in economics. Prerequisite, 11 and consent of the instructor. Mr. McCown.

42. *History of Economic Thought.* A review of economic theory from the time of the mercantilists to the present. Prerequisite, 11 and consent of the instructor. Mr. Wertimer.

44. *Methods of Quantitative Research.* A study of the application of statistical procedures in economic and econometric research. Emphasis on methods of correlation and regression analysis used to estimate social parameters. Prerequisite, 11 and 21 or Mathematics 23. Mr. McCown.

EDUCATION

Mr. Hunt (*Chairman*)

21, 22. *Foundations of Education.* First Semester: *Historical, Philosophical.* Second Semester: *Sociological, Comparative.* An historical and comparative study of the major tendencies and character-

istics of society as they affect education and are affected by educational ideals and the structure of educational systems, with special emphasis upon problems of education in a free society. Examination of contemporary controversial issues. Education 22 is a continuation of 21, but may be elected separately. Open to sophomores and to approved freshmen.

31. *Educational Psychology.* The psychological basis of educational theory and practice; the study of the psychology of adolescence, with special emphasis on the learning problems of adolescents in school; the theory of educational measurements and evaluation; elementary statistical methods. Prerequisite, 21 or 22 or the consent of the instructor.

32. *Special Methods.* Intensive and independent study by each member of the class of the problems in teaching his particular subject or subjects. Practice given in course, unit, and lesson-planning. Discussion of classroom leadership, motivation, testing, discipline, teacher-pupil relationships, materials of instruction. Prerequisite, 31 or consent of the instructor.

33. *Secondary School Methods and Materials; Observation.* A detailed study of general secondary school methods, materials, and classroom techniques. Approximately forty hours of observation in secondary schools. Simulation techniques in, and discussion of, theoretical and practical aspects of lesson planning, evaluation, new teaching technologies, teacher-community relationships, teacher-student relationships, and teacher organizations. Prerequisite, consent of the instructor.

34. *Student Teaching.* A course requiring actual classroom teaching under supervision at a nearby secondary school. Each student assumes responsibility for teaching a minimum of eighty class periods. Student teaching is defined as intensive experience in the school and classroom including independent study, conferences, and the uses of new media and technology. Regular conferences with the instructor and other student-teachers. A comprehensive written account by each student of his experiences in teaching is required at the end of the year. Admission to the course is selective. Prerequisite, consent of the instructor.

ENGLISH

Messrs. Nesbitt, Johnston, Lindley (*Chairman*), Barrett, Briggs, Marki, Ulreich, Wagner, Leana, and Wendling

A concentration in English consists of eight semesters in courses

numbered 21 and above, of which only one may be in advanced composition. 37-38, 39-40, 43-44 will normally be elected as year courses.

11, 12. *Introductory College English.* The practice of writing; themes and conferences. Instruction in writing, largely individual. Readings in selected masterpieces. Not open to second-semester sophomores and above. English 12 is a continuation of 11 and is not open to juniors and above. Both 11 and 12 are offered each semester. The Department.

21. *Introduction to English Literature.* Study and analysis of selected works of major authors from the beginnings to 1800. Prerequisite, 11 with a grade of C minus, or its equivalent. Offered each semester. The Department.

22. *Special Topics.* Special problems in the study of literature. Prerequisite, 21. (Not offered in 1969-70.)

23. *The "Gothic" Tradition in English and American Literature.* "Medievalism," horror, "the sublime," mystery, the supernatural, the perverse. Readings in works by such authors as M. G. "Monk" Lewis, Godwin, Byron, Poe, Emily Bronte, Hawthorne, Faulkner, and Pinter. Prerequisite, 21. Mr. Briggs.

24. *Comedy.* The reading of selected masterpieces in drama, prose fiction, and poetry with the aim of understanding the comic view of life and developing a theory of comic form and style. Prerequisite, 21. Mr. Barrett.

25. *Milton.* Selected poetry and major prose of John Milton. Prerequisite, 21. Mr. Ulreich.

26. *Poetry and the Novel since 1800.* Study and analysis of major works of representative poets and novelists of the nineteenth and twentieth centuries. Prerequisite, 21. Messrs. Leana and Wagner.

27. *Old English.* An introduction to the language and literature of England before the Norman Conquest. Study based upon Old English readers, accompanied by lectures on the history, structure, and vocabulary of the English language. Prerequisite, 21. Mr. Lindley.

28. *Chaucer.* Reading of *The Canterbury Tales, Troilus and Criseyde,* and some minor poems. Prerequisite, 21. Mr. Wendling.

29. *Introduction to the Reading of Poetic Texts.* The study of the relevance of formal conventions to poetic expression. Traditional genres; versification (metre, rhyme, stanza, etc.); exercises in explication. Prerequisite, 21. Mr. Marki.

31. *Nineteenth Century American Literature.* The study of representative works by Thoreau, Hawthorne, Melville, Whitman, Mark Twain, and others. Prerequisite, 21. Mr. Marki.

32. *Twentieth Century American Literature.* Readings in poetry and fiction written primarily during the first half of the century. Special attention is paid to works by James, Hemingway, Faulkner, Dickinson, Pound, Frost, and Stevens. Prerequisite, 21. Mr. Marki.

33. *Spenser.* Selected poetry, primarily *The Faerie Queene.* Prerequisite, 21. (Not offered in 1969-70.)

34. *The Metaphysicals.* Donne, Herbert, and Marvell, with readings in Vaughan, Crashaw, and Traherne. Prerequisite, 21. Mr. Ulreich.

35. *English Literature: 1660-1744.* The rise of neo-classicism in England and its influence on imaginative literature and criticism from Dryden until the death of Pope. Prerequisite, 21. Mr. Johnston.

36. *English Literature: 1744-1800.* The disintegration of classicism. Dr. Johnson and his circle. The Eighteenth century novel. Prerequisite, 21. Mr. Johnston.

37-38. *Nineteenth Century Literature.* Study of works representative of the thought and literary art of major nineteenth-century writers, particularly Jane Austen, Wordsworth, Shelley, Carlyle, Dickens, Browning, Arnold, and George Eliot. Prerequisite, 21. 38 may not be taken as a separate course. Mr. Nesbitt.

39-40. *Modern British Literature.* Readings in English and Irish literature from the turn of the century to the present with particular attention to the works of Shaw, Yeats, Conrad, Joyce, Lawrence, and T. S. Eliot. Prerequisite, 21. Open to juniors and seniors only. 40 may not be taken as a separate course. (English 40 not offered in 1969-70.) Mr. Briggs.

41. *Expository Writing.* The theory of exposition; constant practice in writing clear and logical expository prose. Study of selected specimens of exposition. Prerequisite, 11 or its equivalent. Enrollment limited. Messrs. Lindley and Wagner.

42. *The Writing of Fiction and Poetry.* Stories, plays, and poems by members of the class to be submitted at regular intervals and criticized by the whole group and the instructor. Prerequisite, 11 or its equivalent. Open to juniors and seniors only. Enrollment limited. (Not offered in 1969-70.)

43-44. *Elizabethan and Jacobean Drama.* Readings in English plays from the beginnings to the closing of the theatres in 1642, with

particular attention to Shakespeare. Prerequisite, 21. English 44 may not be taken as a separate course. (43 not offered in 1969-70.) Mr. Barrett.

FRENCH

See Romance Languages, pages 80-83.

GEOLOGY

Messrs. Hawley (*Chairman*) and Potter

A concentration in Geology consists of 11, 12, 36, and seven other semester courses. With permission of the Department, the student may substitute no more than two semester courses from the following: Physics, Chemistry, Mathematics, Biology.

11. *Physical Geology.* An introduction to minerals, rocks, structural geology, the geologic time scale and radiometric dating. Internal structure of the earth, and the origin of the earth, oceans, and atmosphere. Processes that shape the earth's surface. Two lectures,

one discussion section, three hours of laboratory a week. Local field exercise. All-day field trip. Mr. Potter.

12. *Historical Geology*. The history of the earth and its life as interpreted from the rocks of the crust and the fossils they contain. Regional geology and the principles of evolution are emphasized as the bases for the interpretation of geologic history. Three class periods and three hours of laboratory or field exercises a week. One all-day field trip. Prerequisite, 11. Mr. Hawley.

21. *Geology of North America*. A systematic study of the continent emphasizing location, description, age and origin of major geologic elements, giving an integrated picture of broad structures, basins of sedimentation, metamorphic belts, batholiths, volcanic fields and physiographic provinces. Three class periods and three hours of laboratory or field exercise each week, and at least one extended field trip. Prerequisite, 11. Mr. Hawley.

22. *Economic Geology*. Geologic occurrence, origin, and world distribution of the major metallic and non-metallic ores and fuels (coal, oil, gas, uranium). Economics of mining and processing ores. Three class periods and three hours of laboratory a week. Four mine trips requiring reports. Prerequisite, 11. Alternates with 28. (Not offered in 1969-70.)

23-24. *Structural and Field Geology*. A study of primary and tectonic rock structures, and the principles of deformation of the earth's crust. Study of field methods and their application in geologic surveying. Three class periods and three hours of laboratory or field exercises each week, plus at least two weekend field trips. Prerequisite, 11-12. (Not offered in 1969-70.)

25-26. *Mineralogy and Optical Mineralogy*. Introduction to crystallography, crystal chemistry, optical mineralogy, and genesis of minerals. Identification of minerals by physical, spectrochemical, X-ray diffraction, and polarizing microscope techniques. Three class periods and three hours of laboratory a week. Four field trips. Previous or concurrent election of Chemistry 11-12 recommended. Alternates with 31-32.

28. *Glacial Geology*. Theories of glacial climates, origin and movement of glaciers, glacial erosion and deposition. Three class periods and three hours of laboratory or field study each week. Prerequisite, 11. Alternates with 22. Mr. Potter.

31-32. *Petrology*. Chemistry, mineralogy, and genesis of rocks in the light of experimental data and field relations. First semester,

igneous rocks. Second semester, metamorphic and sedimentary rocks. Three class periods and three hours of laboratory each week. Several field trips. Prerequisite, 25-26, or 11 and the consent of the instructor. Mr. Potter.

33-34. *Advanced Historical Geology.* A study of invertebrate paleontology and the principles of stratigraphy. Autumn: description, interpretation, and correlation of sedimentary rocks. Winter: classification, evolution, and history of invertebrate fossils. Spring: regional interpretation of geologic history based upon sedimentary rocks and their fossils. Three class periods and three hours of laboratory or field exercises each week. One weekend field trip each semester. Prerequisite, 11-12. Alternates with 23-24. Mr. Hawley.

36. *Seminar.* Study and group discussion of current and recent geological literature to focus attention on major problems and recent developments related to the history, structure, and composition of the earth. Topics normally included are the internal constitution of the earth, gravity, and isostasy, the origin of the earth, the floors of the ocean, paleomagnetism, continental drift and sea floor spreading. Prerequisites, 11-12, and either 23-24 or 31-32 or the consent of the Department. The Department.

GERMAN

Messrs. Liedke (*Chairman*), Browning, and Colby

A concentration in German consists of 8 semester courses, excluding 11-12.

11. *German for Beginners.* Study of grammar and syntax. Practice in understanding, speaking, reading and writing. Four hours of class a week and laboratory work. Mr. Colby.

12. *German for Beginners.* Further work in grammar and syntax. Continued practice in understanding, speaking, reading and writing. Four hours of class a week and laboratory work. Mr. Colby.

13. *Intermediate German.* Review of grammar and syntax through oral and written work and language laboratory exercises. Prose texts will be read and discussed in German. Prerequisite, 12. Four hours of class a week and laboratory work. Mr. Browning.

15. *Techniques of Reading German.* Intensive practice in reading and translating expository prose selected from the humanities, social and natural sciences. Prerequisite, 13. Mr. Browning.

21. *Introduction to Literature.* Reading of representative prose works, mainly *Novellen,* and lyrical poetry of the nineteenth and

twentieth centuries. Analyses and discussion of texts in German, oral and written. Prerequisite, 13. Messrs. Liedke and Colby.

23, 24. *Conversation and Composition.* Practice in speaking and understanding German on a conversational level. Compositions and oral reports. Prerequisite, 13. Mr. Liedke.

31. *The German Novelle.* Study of the German *Novelle* from its eighteenth century beginnings to the present. Prerequisite, 13. Mr. Colby.

32. *The German Drama of the Nineteenth and Twentieth Centuries.* Reading and analysis of important works of the German stage. Discussion in oral and written form. Prerequisite, 13. Mr. Liedke.

33. *German Poetry.* Critical study and interpretation of German poetry from the Middle Ages to the present. Prerequisite, 13. Mr. Browning.

40. *German Romanticism.* Study of the origins, literary expression and impact of the Romantic Movement in Germany. Prerequisite, any course in the 30-level group. Mr. Browning.

41. *The Age of Goethe.* Critical study of *Faust* and selected works of Goethe and of his contemporaries. Prerequisite, any course in the 30-level group. Mr. Liedke.

42. *Special Topics.* The content of the course will vary. It may deal with the German novel, with the literature of revolt, with particular movements or individual writers in German literature. Prerequisite, any course in the 30-level group. (Not offered in 1969-70.)

GOVERNMENT

Messrs. Rockwell, Richardson (*Chairman*), Frederickson, Lewis, and Mrs. Berke

A concentration in Government consists of eight semester courses, of which six must be at the 20-level or higher, including 29, which must be completed by the end of the junior year.

14. *International Relations.* Introduction to world politics; the elements of power: nationalism, demography, diplomacy, ideology, propaganda; limited and total war; policies and conflicts of the Great Powers; regional organizations. Analysis of selected problems. Search for patterns in international affairs. Offered each semester. Mr. Richardson.

16. *The American Political Process.* An analysis of conflict in a

democratic political system; the role of formal political institutions, parties, pressure groups, and individuals; emphasis on the development of our system in times of conflict, case studies, the sources of discord in contemporary America, and the prospects for democracy today. Offered each semester. Mrs. Berke.

18. *Political Theory.* Main themes in Western political theory from Plato through the nineteenth century as reflected in the writing of influential political philosophers. Offered each semester. Mr. Rockwell.

21. *The Politics of Developing Nations.* Break-up of traditional political systems; comparative colonial policies. Anti-colonial and nationalist revolts. Issues of political modernization: nation-building, single party systems, role of the new elites, guerilla warfare, rapid economic and social change. Prerequisite, two semester courses in either Economics, Government or History. Mr. Richardson.

23. *American Parties and Interest Groups.* A systematic analysis of political parties and interest groups in the United States; emphasis upon their organization, ideology, activities, and internal decision-making processes. Research in state political parties, voting behavior, field work. Prerequisite, 16 or the consent of the instructor. Mrs. Berke.

29. *Introduction to the Scope and Methods of Political Science.* An introduction to the major concerns and research traditions of

modern political science; the analytical significance of key terms and concepts as applied in a number of critical scholarly efforts of the twentieth century. Emphasis is upon descriptive, theoretical and empirical studies which are of methodological importance to the subfields of the discipline. Prerequisite, two semester courses in Government. Required of all majors. Offered second semester only. Mr. Lewis.

30. *Politics in Latin America.* A survey of forces influencing political systems in Latin America today; its political culture, groups, ideologies, party systems, and formal political institutions; political and economic development, and inter-American relations. Emphasis on selected countries. Prerequisite, consent of the instructor. (Not offered in 1969-70.)

31. *Public Administration.* Governmental structure and function analyzed by means of policy flow, decision-making, organization theory, and problems of authority, heirarchy, and specialization. Prerequisite, two semester courses in Government. Mr. Frederickson.

32. *American Foreign Policy.* The constitutional basis for foreign policy. The decision-making processes, application and evaluation of foreign policy. Emphasis on the roles played by the President, Departments of State and Defense, Foreign Service and Congress. Analysis of selected issues in cultural and information policies, arms control, alliance systems, economic aid programs and intelligence. Prerequisite, two courses in Government, Economics, or History. Mr. Richardson.

33. *American Constitutional Development.* The development of the constitution through judicial interpretation. The function of the Supreme Court as an instrument of government and an arbiter of public policy. Emphasis on political, social and economic context of judicial review. Evolution of major characteristics of modern constitutional law. Open to juniors. Prerequisite, two semester courses in any combination in American Government or American History. Mr. Rockwell.

34. *The Constitution and Individual Rights.* Recent constitutional interpretation by the Supreme Court in the realm of civil liberties: freedom of expression, church-state issues, due process of law in criminal procedures, equal protection of the laws, voting and representation. Discussion of the proper role of the Supreme Court in defining individual rights in a democratic society. Open to juniors. Prerequisite, two semester courses in any combination in American Government or American History. Mr. Rockwell.

35-36. *Politics in Urban Areas.* Systematic study of the structure and function of the political systems in large cities. Selected topics for study include urban political parties, the politics of race, ethnicity and poverty, urban renewal, planning, and metropolitanism. Prerequisite, two semester courses in Government and consent of the instructor. Mrs. Berke and Mr. Lewis.

37. *The American Presidency.* A study of the exercise of power by the President in the American political system; his sources of support, his constitutional powers and obligations, the limits on his power, emphasis on his participation in the decision-making process. Research in specific policy areas. Each year, emphasis on one selected administration. Alternates with 38. Prerequisite, 16 or the consent of the instructor. (Not offered in 1969-70.)

38. *Congress and the Legislative Process.* A systematic analysis of Congress and its functions in the American political system; studies of representation, policy-making, formal and informal rules and organization, internal distribution of power, investigations, oversight; individual research in specific policy areas. Simulations of legislative behavior. Alternates with 37. Prerequisite, 16, 23, or the consent of the instructor. Mrs. Berke.

42. *The Politics of Sub-Sahara Africa.* Area study based on individual research. Emphasis on colonial regimes, *négritude,* African socialism, Pan-Africanism, apartheid, role of the military, Great Power and U.N. interests in Africa. Open to juniors and seniors with consent of the instructor. Mr. Richardson.

44. *Recent Political Theory.* Political theories and ideologies from about 1900 to the present. Variations on the theme of democratic theory as found in various recent writers; theories of collectivism and totalitarianism; contributions of psychology, anthropology and legal theory to recent political theory. Open to juniors and seniors. (Not offered in 1969-70.)

Semester in Washington. Director, Mr. Lewis. See page 41.

GREEK

See Classical Languages, pages 52-53.

HISTORY

Messrs. D. Ellis (*Chairman*), Adler, Lee, Millar, and Traer

A concentration in History consists of eight semester courses, including 48-49, which must be completed during the senior year.

10. *Modern Europe, 1648-1848.* A survey of political, institutional, cultural, and intellectual developments in the countries of Western Europe. Offered in the fall semester. Mr. Traer.

11. *Modern Europe, 1848 to the Present.* A survey of political, institutional, cultural, and intellectual developments in the countries of Western Europe, with an emphasis on the problems of war and revolution in the twentieth century. Offered in the spring semester. Mr. Traer.

12. *Kievan, Muscovite and Early Imperial Russia.* A study of the development of Russia from the earliest times to 1825, emphasizing the interaction of institutions, culture, and population. Offered in the fall semester. Mr. Adler.

13. *Imperial and Soviet Russia.* Russia from 1825 to the present, with emphasis on the relationship between Russia and the West and between change and continuity in the development of the Old and the New Regimes. Prerequisite, 12. (Not offered in 1969-70).

14. *The Civilizations of South and East Asia.* South and East Asia before the impact of the West; the historical traditions of India, China, and Japan. Offered in the fall semester. Mr. Lee.

15. *South and East Asia in the Modern World.* The Western impact on South and East Asia; the reactions of India, China, and Japan to Western pressures. Prerequisite, 14. Offered in the spring semester. Mr. Lee.

16. *American Colonial and Early National History (to 1815).* A survey of American origins, with an emphasis upon colonial ideas and institutions, the growth of democracy, the progress of the Revolution, and the emergence of a new nation. Offered in the spring semester. Mr. Millar.

17. *American Diplomatic History.* A survey of American diplomacy, with an emphasis upon the political, economic, and ideological factors which influenced the formulation of foreign policy and the conduct of foreign affairs. Offered in the fall semester. Mr. Millar.

18. *American Economic and Social History.* A survey of American economic and social development, with an emphasis upon economic change and its social consequences. Offered in the fall semester. Mr. Ellis.

19. *Twentieth-Century American History.* A survey of recent developments in American political, economic, and social life. Offered in the spring semester. Mr. Ellis.

20. *Europe in the Age of the French Revolution and Napoleon.*

A study of the first great revolution of modern times and its effects throughout Europe. Open to sophomores. Offered in the fall semester. Mr. Traer.

21. *Nineteenth-Century European Social History.* Analyses of such factors as demographic change, urbanization, industrialization, institutional development, patterns of class organization, and social mobility in nineteenth-century Europe. Open to sophomores. Offered in spring semester. Mr. Traer.

24. *The Black Man in America.* A survey of the relationship between black and white society in America, from colonial times to the present. Open to sophomores. (Not offered in 1969-70.)

25. *Seminar on the Black Man in America.* Analyses of the relationship between black and white society in America, from documentary sources. Prerequisite, 24. (Not offered in 1969-70.)

26. *Seminar in American Colonial and Early National History (to 1815).* Selected problems in colonial and early national history, with an emphasis on the Revolutionary period. Prerequisite, 16. (Not offered in 1969-70.)

27. *Seminar in American Diplomatic History.* Major themes in American diplomatic history, with an emphasis upon manifest destiny and mission in the conduct of foreign affairs. Prerequisite, 17. Offered in the spring semester. Mr. Millar.

28. *Seminar in American Economic and Social History.* Selected problems in American economic and social history. Prerequisite, 18 or Kirkland Economics 111-112. Offered in the spring semester. Mr. Ellis.

29. *Seminar in Twentieth-Century American History.* A topical study of recent American political, economic, and social developments, largely from contemporary sources. Prerequisite, 19. Offered in the fall semester. Mr. Ellis.

32. *Intellectual and Cultural History of Imperial Russia.* A topical study of the ideas and social attitudes which shaped Russian society from Peter the Great to 1894; the development of Russian historical thought. Prerequisite, 13. Offered in the fall semester. Mr. Adler.

33. *Intellectual and Cultural History of Revolutionary and Soviet Russia.* A topical study of the intellectual and ideological sources of cultural life in the period of the revolutions, and the evolution of culture in the Soviet period. Prerequisite, 13. (Not offered in 1969-70.)

34. *Modern Japan.* The modernization of Japanese society and its

subsequent domestic and international development. Prerequisite, 15. Offered in the fall semester. Mr. Lee.

35. *Modern China.* Changes in China's domestic and international situations since the early nineteenth century; the effects of internal revolution and external pressures on China's civilization. Prerequisite, 15. Offered in the spring semester. Mr. Lee.

38. *New York State.* The political, economic, and social development of New York; the role of New York in national and international affairs. Prerequisite, any two courses in American history. Offered in the spring semester. Mr. Ellis.

39. *Urban America.* The urban impact upon American thought, culture, and institutions. Prerequisite, any two courses in American history. Offered in the fall semester. Mr. Ellis.

40. *France in Modern Times.* An examination of unresolved problems and interpretations of political stability and change, economic development, cultural achievement, and social conflict in nineteenth and twentieth-century France. A reading knowledge of French is desirable. Prerequisite, 10 and 11, 20, or 21. Offered in the fall semester. Mr. Traer.

41. *Selected Topics on the French Revolution and the Napoleonic Era.* An investigation of a variety of problems such as the intellectual and social origins of the Revolution, patterns of class conflict, and the reaction of other countries to the influence of French ideas and institutions. A reading knowledge of French or another European language is desirable. Prerequisite, 20. Offered in the spring semester. Mr. Traer.

42. *Topics and Problems in the Diplomatic History of Europe since 1815.* A study of particular crises from documentary sources. A reading knowledge of French, German, or Russian is desirable. Prerequisite, any two courses from among 10, 11, 12, 13, and Kirkland History 112. Offered in the fall semester. Mr. Adler.

43. *Topics in East European History since 1918.* A study of selected problems in the development of East European states, with emphasis on the inter-war period. Prerequisite, 13. (Not offered in 1969-70.)

44. *Modern India.* The consolidation of British control and subsequent developments in such areas as literature, religion, and politics; the establishment and early years of India and Pakistan. Prerequisite, 15. (Not offered in 1969-70.)

46. *American Intellectual History from Colonial Times to the*

Civil War. The impact of ideas and ideals on American society. Open to seniors. Offered in the fall semester. Mr. Millar.

47. *American Intellectual History since the Civil War*. Open to seniors. Offered in the spring semester. Mr. Millar.

48. *Historiography*. The philosophy, theory, and method of history; the great historical traditions of Europe, Asia, and America. Required of senior majors in history. Offered in the fall semester. The Department.

49. *Independent Research*. A project required of senior majors in history, resulting in a thesis supervised by a member of the department. Offered in the spring semester. The Department.

LATIN

See Classical Languages, pages 52-53.

MATHEMATICS

Messrs. Gere, Ogilvy (*Chairman*), Adkins, Anderson, and Ballentine

A concentration in Mathematics consists of 13-14, 21-22, 31-32, 33, 41-42, and one other semester course. With the permission of the Department, a student may make a substitution for 32 or for 42, but not ordinarily for both.

13-14. *Calculus and Analytic Geometry*. Introduction to the differential and integral calculus with topics from analytic geometry. The Department.

21-22. *Linear Algebra and Calculus*. An introduction to linear algebra; matrices and determinants, vector spaces and linear transformations, linear systems. Continuation of the study of differential and integral calculus, including three dimensional analytic geometry and differential equations. Prerequisite, 13-14. The Department.

23. *Probability and Statistics*. A first course in probability and statistics; random variables, distribution functions, introduction to the theory of estimation and testing of hypotheses. Prerequisite, 13-14. Mr. Gere.

26. *Higher Geometry*. Topics in geometry selected from affine, projective, non-Euclidean geometry, and Euclidean geometry studied by non-traditional methods. Prerequisite, 13-14. Offered in alternate years. Mr. Ogilvy.

31-32. *Advanced Calculus and Applied Mathematics*. Selected topics from classical analysis including partial differentiation, series,

differential equations, operational methods, orthogonal functions and special functions of particular interest to physical scientists, introduction to functions of a complex variable. Prerequisite, 21-22. Messrs. Gere and Ogilvy.

33. *Modern Algebra.* A study of algebraic structure; systems with one and two binary operations such as groups, rings, fields, construction of number systems. Prerequisite, 21-22. Mr. Ballentine.

34. *Numerical Analysis.* Finite differences, interpolation, methods of approximation and iterative methods, numerical solution of differential equations. A non-credit orientation to the use of digital computers will be presupposed, and applicability of procedures to computer usage will be considered throughout the course. Prerequisite, 21-22. Mr. Ballentine.

36. *Number Theory.* Topics in number theory including divisibility, primes, congruences, Euler's Phi-function, diophantine equations, quadratic residues, continued fractions. Prerequisite, 33. Offered in alternate years. (Not offered in 1969-70.)

41-42. *Introduction to Functions of a Real Variable and Topology.* The study of such topics as continuity and convergence in metric spaces, measure theory, Lebesque integration, function spaces, and introductory topology. Prerequisite, 31-32, or 21-22 and the consent of the Department. Mr. Anderson.

45. *Seminar.* Offered occasionally with topics selected according to the individual needs of those electing the course. Prerequisite, 33 and the consent of the Department. Mr. Anderson.

MUSIC

Messrs. Bonta (*Chairman*), Fankhauser, Flaver, and Walker

A concentration in Music consists of two semester courses in Music history, six semester courses in music theory, and four semesters of work in piano. A student demonstrating sufficient proficiency in piano may substitute four semesters of work in another instrument or in voice.

11-12. *Introduction to Music.* The study of musical materials, processes, and conventions, and their use in selected works from the Western tradition. Work in the fundamentals of music, including notation, ear-training, and sightsinging. No previous knowledge of music is required. Mr. Bonta.

13-14. *Solo or Ensemble Performance I.* The study of music through performance, either in the form of private instruction or in

the form of chamber music with group coaching, in either voice or instruments. Prerequisite, the consent of the Department. This course pursued for two semesters will be equivalent to a one-semester course. Academic credit will be granted for either individual instruction or work in chamber music, not for both. The Department.

15-16. *Group Performance.* The study of music through performance, either in the College Choir, the Brass Choir, the Woodwind Ensemble, or the Orchestra. Prerequisite, consent of the instructor. Group performance pursued for four semesters will be equivalent to a one-semester course. This course may be taken throughout the student's college career. Students wishing to participate in more than one of the above-mentioned organizations may do so, but will receive academic credit for work in only one. The Department.

21-22. *Theory I.* An introduction to the basic elements of tonal harmony by means of ear training, keyboard work, analysis, and written exercises. Prerequisite, 11-12. (Not offered in 1969-70. Kirkland Music 111-112 will be available.)

23-24. *Solo or Ensemble Performance II.* A continuation of Music 13-14. Prerequisite, 13-14 and the consent of the Department. The Department.

25. *Medieval and Renaissance Music.* A study of the history and

literature of Western music to 1600, including selected works by major composers from Leonin to Byrd. Prerequisite, 11-12 or Kirkland Music 111-112. Mr. Bonta.

26. *Music of the Baroque.* A study of the history and literature of Western music from 1580 to 1750, including selected works by major composers from Monteverdi to Bach. Prerequisite, 11-12 or Kirkland Music 111-112. Mr. Bonta.

27. *Music of the Classic and Romantic Periods.* A study of the history and literature of Western music from 1720 to 1900, including selected works by major composers from Gluck to Mahler. Prerequisite, 11-12 or Kirkland Music 111-112. (Not offered in 1969-70.)

28. *Contemporary Music.* A study of the history and literature of Western music from 1875 to the present, including selected works by major composers from Moussorgsky on. Prerequisite, 11-12 or Kirkland Music 111-112. (Not offered in 1969-70.)

31-32. *Theory II.* Further study of the elements of tonal harmony. Eighteenth century contrapuntal practices are studied in the second semester. Prerequisite, 21-22. (Not offered in 1969-70. Kirkland Music 211-212 will be available.)

33-34. *Solo or Ensemble Performance III.* A continuation of Music 23-24. Prerequisite, 23-24 and the consent of the Department. Consent will be contingent upon the student's demonstrating enough growth in musical comprehension to justify further work in performance. The Department.

41-42. *Theory III.* Intensive analysis of musical works from various historical periods. There will be some work in composition. Prerequisite, Kirkland Music 211-212. Mr. Fankhauser.

43-44. *Solo or Ensemble Performance IV.* A continuation of Music 33-34. Prerequisite, 33-34 and the consent of the Department. The Department.

PHILOSOPHY

Messrs. Blackwood (*Chairman*), Simon, Bowie, and Mrs. Ring

A concentration in Philosophy consists of 21-22, 23, 34, and four other semester courses.

11. *Introduction to Philosophy.* A study of some of the fundamental philosophical questions, with emphasis on issues in the philosophy of science. Offered each semester. (Limited to 50 students each semester.) The Department.

21-22. *The History of Western Philosophy.* A study of the philosophical classics of Western civilization. Consideration of the most important contributions of outstanding thinkers from early Greek times to the present. Open to sophomores. The Department.

23. *Symbolic Logic.* A study of the methods, techniques, and results of formal logic. Open to sophomores. Mr. Simon.

28. *Aesthetics.* An examination of the nature of meaning, truth, and value in the arts. Open to sophomores. (Not offered in 1969-70.)

31, 32. *Asian Religions.* First semester: the faith, practices, history and philosophies of Islam. Attention is also given to theories of the nature of religion, religion in non-literate cultures, and Zoroastrianism. Second semester: Hinduism, Taoism, Confucianism, Theravada and Mahayana Buddhism. Prerequisite, two courses in Philosophy or Religion. Mr. Blackwood.

33. *Philosophy of the Social Sciences.* An investigation of philosophic problems in the social sciences, with special emphasis on the concepts of explanation, motivation, and objectivity. Open to sophomores. Mr. Simon.

34. *Contemporary Analytic Philosophy.* A consideration of the important developments in twentieth century Anglo-American philosophy. Prerequisite, 22 or the consent of the instructor. Mr. Simon.

35. *Existentialism and Phenomenology.* A study of major figures in contemporary Continental philosophy. Prerequisite, 21-22 or the consent of the instructor. (Not offered in 1969-70.)

37. *Ethical Theory.* A critical survey of problems in ethics and metaethics with primary emphasis on the modern period. Open to sophomores. Mr. Bowie.

38. *Philosophy of Law.* Inquiry into the nature and authority of law, with particular attention given to the relation of legality and morality. Open to sophomores. Mr. Bowie.

41. *Philosophy of Religion.* Philosophical analysis of the major claims of the Eastern and Western religious traditions. Particular attention is given to the nature of religious knowledge. (Not offered in 1969-70.)

42. *Advanced Topics.* Intensive consideration of the utilitarian, egalitarian, and socialist theories of distributive justice, with a view to the formulation of new theories. Prerequisite, one course in Philosophy. Mr. Bowie.

43. *Special Topics.* (Not offered in 1969-70.)

PHYSICAL EDUCATION

Messrs. Weber (*Chairman*), Jones, Batt, Long, Patrick, von Schiller, and MacDonald

During their first two years in residence, all students participate in the program for individual development. This program is based on the theory that it is as important to develop a good physique and a love of sport in the average man as it is to provide scope for the brilliant athlete.

All students are tested at the beginning of their college course to discover their individual needs. Four tests are given to men who qualify in the medical examination: (1) physical fitness, (2) swimming, (3) skill in one outdoor carry-over sport, (4) skill in one indoor carry-over sport. The type of program pursued by each student is determined by his performance in these tests.

Men with organic defects or functional disabilities enter an individual program approved by the college physician.

Facilities and instruction are provided for the following sports: badminton, baseball, basketball, football, golf, handball, hockey, skating, soccer, squash, swimming, tennis, touch football, track, volleyball, and wrestling.

PHYSICS

Messrs. Cameron, Ring (*Chairman*), Millet, and Pearle

A concentration in Physics consists of 13-14 (or 11-12), 21-22, 23, 24, 35, and 36.

11-12. *Principles of Physics.* An introduction to the principles of physics including mechanics, electricity and magnetism, quantum physics and the special theory of relativity. Open to freshmen and others who expect to take only one course in college physics. Three class hours and three laboratory hours per week. Mr. Cameron.

13-14. *Principles of Physics.* Essentially the same topics as 11-12 but with calculus. Primarily for students who expect to major in science. Mathematics 13-14 or its equivalent must either precede or be taken concurrently. Three class hours and three laboratory hours per week. Mr. Ring.

21-22. *Mechanics and Mathematical Physics.* Principles of classical mechanics, including dynamics of particles and particle systems, the two body problem, wave motion, coupled oscillators, gravitation, Lagrangian formulation. Topics in mathematical physics such as linear differential equations, multiple integrals, vector analysis, infinite series, Fourier series and partial differential equations treated in the

context of mechanics. Prerequisites, 13-14, or Mathematics 13-14 and Physics 11-12. Three class hours per week. Mr. Millet.

23. *Electronics.* An introduction to linear circuit analysis in conjunction with laboratory work in circuits, devices and instruments. Includes such topics as AC circuit theory, complex numbers, vacuum tubes, semi-conductors, transistors, oscillators and amplifiers. One of the purposes is to prepare students to use electronic equipment, notably oscilloscopes, in experimental work. Prerequisites, 13-14, or Mathematics 13-14 and Physics 11-12. Three class hours and three laboratory hours per week. Mr. Pearle.

24. *Electricity and Magnetism.* The empirical laws of Gauss, Faraday and Ampere studied in conjuction with special relativity and conservation laws. Derivation of Maxwell's equations in differential and vector form. Application to dielectric and magnetic materials. Includes such topics as vector analysis, electrostatic potentials, Laplace's equation, Ohm's law, vector potential, displacement current, dipole moments and ferromagnetism. The devices and techniques of 23 are used to study electron trajectories in electric and magnetic fields as well as the properties of dielectric and magnetic materials. Prerequisite, 23. Three class hours and three laboratory hours per week. Mr. Pearle.

35. *Atomic Physics.* Atomic phenomena and the underlying theory, quantum mechanics, with emphasis on the theory as it relates

to experimental observation. Includes such topics as the photoelectric effect, Compton scattering, atomic spectra, the uncertainty principle, the square-well problem, the harmonic oscillator, angular momentum and the hydrogen atom. Experiments include photoelectric effect, electron scattering in gases and X-ray diffraction from crystals. Prerequisites, 21-22 and 23. Three class hours and three laboratory hours per week. Mr. Ring.

35a. Same course as 35 but without the laboratory. Prerequisites, 21-22 or Mathematics 31-32 and either Physics 11-12 or 13-14. Mr. Ring.

36. *Nuclear Physics and Elementary Particles.* Principal properties of the atomic nucleus analyzed by applying quantum mechanics to simplified nuclear models. Introductory group theory, conservation laws, and current theories of elementary particles. Includes such topics as scattering theory, the Weizacker semi-empirical mass formula, the shell model, the optical model and the eight-fold way. Experimental equipment includes a neutron generator, a bubble-chamber scanning table, crystal and surface barrier detectors, coincidence circuits, and counting devices. Prerequisite, 35. Three class hours and three laboratory hours per week. Mr. Ring.

37. *Electrodynamics.* Field's and Maxwell's equations; electromagnetic wave propagation; boundary value problems; retarded potentials; wave guides; connections with special relativity theory through tensor treatment. Prerequisites, 21-22 and 24. Three class hours per week. Mr. Millet.

38. *Physical Optics.* The principal phenomena of light which can be interpreted by the classical wave theory: interference, Fraunhofer and Fresnel diffraction, dispersion and polarization. Prerequisites, 21-22 and 24. Three class hours and three laboratory hours per week. Mr. Millet.

39. *Thermal Physics.* Principles of statistical mechanics; kinetic theory of gases; statistical treatment of ensembles of particles, Maxwell-Boltzmann velocity distribution; entropy, work, heat and thermodynamic laws; thermodynamic potentials; applications to various physical systems. Prerequisite, 21-22. Three class hours per week. Mr. Pearle.

40. *Quantum Mechanics.* A formal development of the basic theory and applications to molecular and crystalline systems; quantum statistics and applications to problems of electrons in metals and quantum electronics. Prerequisites, 39 (or Chemistry 33) and 35 or 35a. Three class hours per week. Mr. Pearle.

PSYCHOLOGY

Messrs. Godcharles (*Chairman*), Barlow, and Gescheider

A concentration in Psychology consists of four semester laboratory courses in Psychology and four other semester courses, beyond the introductory level, chosen from Psychology and from courses in the following: Anthropology, Biology, Chemistry, Mathematics, and Physics. For these five departments, not more than two semester courses may be included from any one for the concentration.

11. *Principles of Psychology I.* Introduction to the objective analysis of behavior with emphasis upon the psychology of learning and the social relevance of experimental analysis. Lectures will normally be supplemented by at least two hours of laboratory each week. Messrs. Godcharles and Barlow.

12. *Principles of Psychology II.* Introduction to the objective analysis of behavior with emphasis upon the biological basis of learning, memory, perception, emotion, and motivation. Lectures will normally be supplemented by at least two hours of laboratory each week. Mr. Gescheider.

14. *Freud.* A close study of the principal theoretical and clinical writings of Freud. Prerequisite, 11. Mr. Godcharles.

23. *Social Psychology.* Study of the theoretical and empirical literatures dealing with problems of man among his fellows. Prerequisite, 11. Mr. Godcharles.

25. *Jung.* A broad introduction to the writings of Carl Jung. Prerequisite, 14. Mr. Godcharles.

27-28. *Experimental Analysis of Behavior.* Experimental investigation of the principal variables affecting the acquisition, maintenance, and loss of behavior. Problems of the design of experiments, apparatus manipulation, and the treatment of data are considered. Two hours of lecture and four hours of laboratory. Prerequisite, 12. Mr. Barlow.

32. *Humanistic Psychology.* An alternative to the natural science approach to the study of behavior employing a personalistic point of view. Prerequisite, 11. Mr. Godcharles.

34. *Abnormal Psychology.* A survey of the literature of several of the more recently developed theoretical approaches to abnormal behavior. Prerequisite, 14. Mr. Godcharles.

35. *Quantitative Methods in Psychology.* Measurement, data analysis, and quantitative theories in psychology. Topics will include

descriptive and inferential statistics, psychological measurement, decision theory and information theory. Three hours of lecture and discussion and three hours of laboratory. Prerequisite, 12. Mr. Gescheider.

36. *Perception.* A study of determinants and properties of sensory and perceptual processes, especially visual and auditory. Prerequisite, 35. Mr. Gescheider.

43. *Historical and Theoretical Foundations of Contemporary Psychology.* History and philosophy of science with particular reference to historical and current psychological problems. Prerequisite, 12. (Not offered in 1969-70.)

RELIGION

Messrs. Williams (*Chairman*) and Endy

A concentration in Religion consists of eight semester courses, of which three must be chosen from 11, 13, 14, or 21-22.

11. *Introduction to the Study of Religion.* An analysis of the nature and expression of religion as manifested in various cultures, past and present. Particular attention will be paid to the nature of religious language and symbols, the relation between religion and culture, and the varieties of religious experience and expression. Offered each semester. Mr. Williams.

13. *The Religion of Ancient Israel.* An introduction to the religion of ancient Israel as it is expressed in selected books from the Law, Prophets, and Writings. Particular attention will be paid to the cultural and religious background of the ancient Near East and to the light which archaeological findings have shed upon the Bible. Mr. Williams.

14. *The Origins of Christianity.* A study of the origin and early development of Christianity against the background of Hebraic religion and the religious life of the Greco-Roman world. A comprehensive introduction to the major source, the New Testament. Prerequisite, 13. Mr. Endy.

21-22. *A History of Western Religious Thought.* The role which religion has played in cultural, scientific and philosophical developments. Mr. Endy.

31, 32. *Asian Religions.* First semester: the faith, practices, history and philosophies of Islam. Attention is also given to theories of the nature of religion, religion in non-literate cultures, and Zoroastrianism. Prerequisite, any course in Religion or Philosophy. Second se-

mester: Hinduism, Taoism, Confucianism, Theravada and Mahayana Buddhism. Prerequisite, two courses in Religion or Philosophy. Mr. Blackwood.

33. *A History of American Religious Thought to 1920.* A historical study of religious thought in the United States to 1920, with emphasis on the relationship between religion and the major developments in American life and thought. Prerequisite, a course in the Department or consent of the instructor. Mr. Endy.

34. *Religion in Contemporary America.* A study of contemporary Protestantism, Catholicism, and Judaism in the United States. The focus will be on the general outline of belief and practice in each of the three communions, contemporary theological developments, and the relationship between each communion and American culture. Prerequisite, a course in the Department or consent of the instructor. Mr. Endy.

35-36. *The Christian View of God and Man.* A study of the Christian doctrine of God, man, and man's duty as this is expressed in the traditions of the Christian Church and the ecumenical creeds of Christendom. Prerequisite, a course in the Department or consent of the instructor. (Not offered in 1969-70.)

39. *The Defense of an Attack upon Christendom in the 19th Century.* An intensive study of works by important protagonists and critics of religion in the 19th century. Emphasis will be placed upon such European thinkers as Schleiermacher, Kierkegaard, Nietzsche, Marx, and Freud. Prerequisite, a course in the Department or consent of the instructor. Mr. Williams.

40. *Continental and British Religious Thought in the 20th Century.* An intensive study of selected works by important continental and British thinkers. Prerequisite, a course in the Department or consent of the instructor. Mr. Williams.

ROMANCE LANGUAGES

FRENCH

Messrs. Moraud (*Chairman*), Hamlin, Davis, Cholakian, and Mealy

A concentration in French consists of 13, and seven other semester courses.

11. *First Semester French.* A thorough grounding in listening comprehension, speaking, reading and writing. Offered first semester only. Four hours of class a week and laboratory work. Mr. Mealy.

12. *Second Semester French.* Further work in listening compre-

hension, speaking, reading and writing. Prerequisite, 11. Offered each semester if enrollment warrants. Four hours of class a week and laboratory work. Mr. Davis.

13. *Third Semester French.* Review of grammar and syntax. Intensive reading of selected texts. Oral practice. Offered each semester if enrollment warrants. Four hours of class a week and laboratory work. Messrs. Moraud and Hamlin.

21. *Introduction to French Literature.* Study and analysis of selected works. Outside reading, written assignments and laboratory work. Prerequisite, 13 or consent of the Department. Offered each semester if enrollment warrants. Taught mainly in French. Messrs. Moraud and Davis.

23. *Advanced French.* A course designed for students who wish to acquire a better command of the language and skill in translating. Written as well as oral exercises. Laboratory work. Prerequisite, 13 or consent of the Department. Offered each semester if enrollment warrants. Taught mainly in French. Messrs. Hamlin and Mealy.

25. *Contemporary France.* A course dealing with the intellectual, social and economic history of France since World War II. Outside reading and discussion. Prerequisite, 13 or consent of the Department. Taught mainly in French. Messrs. Davis and Mealy.

30. *Introduction to French Classicism.* Lectures, discussions, outside reading, and written reports. This course is recommended for students who wish to do further work in French Literature. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. Mr. Mealy.

31. *The Age of Enlightenment.* Study and analysis of 18th century writers. Lectures, discussions, outside reading, and written reports. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. (Not offered in 1969-70.)

32. *Nineteenth Century French Novel.* Study of the development of the novel in the 19th century, romanticism, realism, naturalism. Lectures, discussions, outside reading and written reports. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. Mr. Moraud.

33. *Twentieth Century French Prose.* Study and analysis of French literature and thought in the 20th century as reflected in prose. Lectures, discussions, outside reading and written reports. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. Mr. Davis.

34. *Contemporary French Poetry.* Poetry of the 19th and 20th centuries. Lectures, discussions, outside reading, and written reports. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. Mr. Hamlin.

38. *French Cinema.* A course dealing with the history of French cinema. Systematic study of scenarios, sound tracks, films. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. Mr. Moraud.

39. *French Civilization.* A course dealing with the intellectual, social, and economic history of France, from the beginning to World War II. Lectures, discussions, outside reading, and written reports. Taught entirely in French. Prerequisite, any 20-level course or consent of the Department. (Not offered in 1969-70.)

40. *Medieval French Literature.* Study and analysis of old French. Lectures, discussions, written reports. Taught entirely in French. Prerequisite, any 30-level course or consent of the Department. (Not offered in 1969-70.)

41. *The Renaissance.* Lectures, discussions, outside reading, and written reports. Taught entirely in French. Prerequisite, any 30-level course or consent of the Department. Mr. Mealy.

42. *French Classical Theater.* Study and analysis of the classical

tradition in the French theater from the 17th century to the present. Lectures, discussions, outside reading, and written reports. Taught entirely in French. Prerequisite, any 30-level course or consent of the Department. (Not offered in 1969-70.)

43. *Contemporary French Theater.* This course deals with the history of the French stage in the 20th century. Emphasis is on the techniques of the theater. Taught entirely in French. Prerequisite, any 30-level course or consent of the Department. Mr. Hamlin.

47. *French Stylistics.* A course in creative writing in French for students who possess a solid command of the language. Exercises in translation, writing scenarios, adaption of novels into plays, etc. This is a very flexible course based on the interests of the students. Limited enrollment. Permission of the instructor is required. Taught entirely in French. Prerequisite, any 30-level course or consent of the Department. (Not offered in 1969-70.)

48. *Problems in French Literature.* A study of pre-Romanticism in France and England. Taught entirely in French. Prerequisite, any 30-level course or consent of the Department. (Not offered in 1969-70.)

Junior Year in France. Director, Mr. Cholakian. See page 40.

SPANISH

Messrs. Tato and Medina

A concentration in Spanish consists of 13, and seven other semester courses.

11. *First Semester Spanish.* Thorough grounding in listening comprehension, speaking, reading and writing. This course, linguistically oriented, is conducted according to the intensive oral method. Offered first semester only. Four hours of class a week and laboratory work. Mr. Medina.

12. *Second Semester Spanish.* Further work in listening comprehension, speaking, reading and writing. Offered each semester if enrollment warrants. Four hours of class a week and laboratory work. Prerequisite, 11. Mr. Tato.

13. *Third Semester Spanish.* Intensive grammar review. Stress on oral practice and selected readings from modern Spanish texts. Offered each semester if enrollment warrants. Four hours of class a week and laboratory work. Mr. Medina.

21. *Introduction to Spanish Literature.* Lectures, study and analy-

sis of the outstanding works and authors from the Middle Ages to the twentieth century. Outside reading and writing assignments. Offered each semester if enrollment warrants. Taught mainly in Spanish. Prerequisite, 13 or consent of the Department. Mr. Medina.

23. *Advanced Spanish.* A course designed for students who wish to acquire a better command of the language and skill in translating. Written as well as oral exercises. Laboratory work. Taught mainly in Spanish. Prerequisite, 13 or consent of the Department. Mr. Tato.

24. *Spanish-American Civilization.* The history and culture of Spanish-America. A study of the origins and evolution of the Spanish-American character, tradition and thought. Outside reading and discussion. Offered each semester if enrollment warrants. Taught mainly in Spanish. Prerequisite, 13 or consent of the Department. Mr. Tato.

25. *Spanish Civilization.* A course dealing with the history of Spanish Civilization. Lectures, discussions, outside reading and written reports. Offered each semester if enrollment warrants. Taught mainly in Spanish. Prerequisite, 13 or permission of the Department. (Not offered in 1969-70.)

26. *Introduction to Spanish-American Literature.* A panoramic view of the development of Spanish-American Literature, emphasizing representative works of each period or literary school. Outside reading and written assignments. Offered each semester if enrollment warrants. Taught mainly in Spanish. Prerequisite, 13 or permission of Department. (Not offered in 1969-70.)

30. *Spanish Theater of the Golden Age.* Study of important Spanish dramatists of the Golden Age, with reference to the poets of the periods. Lectures, discussions, outside reading and written reports. Three hours of class a week. Taught entirely in Spanish. Prerequisite, any 20-level course or consent of the Department. (Not offered in 1969-70.)

33. *18th and 19th Century Literature in Spain.* Brief reference to the 18th century literature. Romantic drama and poetry; the realistic novel. Special emphasis on Galdos. Lectures, discussions, outside reading and written assignments. A considerable amount of reading is required. Three hours of class a week. Taught entirely in Spanish. Prerequisite, any 20-level course or consent of the Department. Mr. Tato.

35. *The Generation of 1898.* Characteristics, technique and ideas of the writers of the Generation of 1898. Lectures, discussions, out-

side reading and written assignments. A considerable amount of reading is required. Three hours of class a week. Taught entirely in Spanish. Prerequisite, any 20-level course or consent of the Department. (Not offered in 1969-70.)

36. *Contemporary Spanish Literature.* The ideas, trends and new literary concepts of the Spanish Literature in the 20th century. Lectures, discussions, outside reading and written assignments. A considerable amount of reading is required. Taught entirely in Spanish. Prerequisite, any 20-level course or consent of the Department. Mr. Medina.

38. *Spanish-American Literature.* The development of the national ideal in the prose writers of the 19th and 20th centuries. Lectures, discussions, outside reading and written assignments. A considerable amount of reading is required. Taught entirely in Spanish. Prerequisite, any 20-level course or consent of the Department. (Not offered in 1969-70.)

43. *Medieval and Renaissance Literature.* Study and analysis of some major literary works of the Middle Ages and the Renaissance. Lectures, discussions, outside reading and written assignments. Taught entirely in Spanish. Prerequisite, any 30-level course or consent of the Department. (Not offered in 1969-70.)

46. *Spanish-American Literature.* Poetry and prose from the Modernista to the present. Special emphasis on the technique and characteristics of the contemporary Spanish-American novel. Lectures, discussions, outside reading and written assignments. A considerable amount of reading is required. Three hours of class a week. Taught entirely in Spanish. Prerequisite, any 30-level course or consent of the Department. (Not offered in 1969-70.)

48. *Special topics in Hispanic Literature.* Study of an author, a genre or a literary movement in Spanish or Spanish-American Literature. Lectures, discussions, outside reading and written assignments. A considerable amount of reading is required. Three hours of class a week. Taught entirely in Spanish. Prerequisite, any 30-level course or consent of the Department. Mr. Tato.

RUSSIAN

Mr. Young (*Chairman*)

11-12. *First Year Russian.* A comprehensive introduction to the speaking, aural comprehension, reading and writing of Russian. Constant oral and written practice in classwork and homework based on

an integrated program of language tapes available for personal use or for use in the College Language Laboratory. Open to freshmen.

13-14. *Second Year Russian.* Systematic review of structure and vocabulary in conjunction with correlated language tapes. Selected readings from Russian literature, oral practice, and written exercises. Prerequisite, 11-12 or equivalent.

21-22. *Introduction to Russian Literature.* Readings, discussions, and reports in Russian on selected 19th century classics, including Pushkin, Turgenev, Dostoyevski, and Chekhov. Continued review and broadening of student knowledge of structure and vocabulary. Prerequisite, 13-14 or equivalent.

31-32. *Contemporary Russia.* Readings, discussions, and reports in Russian on major aspects of contemporary Soviet society, literature, politics, and foreign policy. Prerequisite, 21-22 or equivalent and the permission of the instructor.

SPANISH

See Romance Languages, pages 83-85.

SPEECH

Messrs. Todd (*Chairman*), Wright, and Carson

11. *Public Speaking.* Introduction to the principles of spoken communication. Study of the nature of rhetoric, practice in public address, readings in selected speeches. Lectures, discussions and private conferences. Offered both semesters. The Department.

21. *Advanced Public Speaking.* Readings in rhetorical criticism. Several major speeches prepared by independent research and writing complemented by consultation with instructor. Enrollment limited. Some speaking engagements off the campus. Prerequisite, 11. Mr. Carson.

22. *Discussion and Argumentation.* Study of the principles and techniques of problem-solving as they apply to solution from cooperation and to solution from conflict. Emphasis on the recognition and analysis of options, on the testing of evidence and its formation into patterns of argument. Discussions and debates. Mr. Carson.

23. *History of Rhetorical Theory.* A survey of writings on rhetorical theory from Plato and Aristotle to the present. Study of the evolution of theories of persuasion as they have been altered by emerging, related fields of study. Mr. Todd.

25. *History and Criticism of American Public Address.* Study of selected spokesmen in American history whose influence is attributed partly to their public address. From the Colonial period to the presidency of FDR. An examination of the relationships between speech-making and the society it is intended to influence. Practice in applying the principles of rhetorical criticism to significant speeches. Mr. Wright.

32. *Problems in Contemporary Communication.* Examination of the changes in society's attitudes toward oral communication as these attitudes have been conditioned by electronic mass media and changing social patterns. Readings in semantics, communication theory, anthropology, etc. Effort to reconstruct rhetorical theory to meet the age it must serve. Prerequisite, consent of the instructor. Mr. Todd.

34. *Contemporary Public Address.* Study of selected American spokesmen from FDR to the present. Emphasis on the ways in which contemporary speakers respond (or fail to respond) to changing social attitudes toward public address. Prerequisite, consent of the instructor. Mr. Wright.

KIRKLAND COLLEGE COURSES

The Hamilton College student may, with proper approval, elect Kirkland courses for which he is qualified. This greatly increases the range of offerings available to him.

Listed below are the Kirkland courses open to Hamilton students. Descriptions may be found in the Kirkland *Catalogue*. Odd-numbered courses are offered the first semester; even-numbered, the second. An asterisk preceding a course indicates that normally a lower level course is a prerequisite.

ARTS DIVISION

Inter-Arts Seminar.
Dance 191-292. Modern Dance and Ballet.
**Dance 291-292.* Modern Dance and Ballet—II.
Drama 111. Sources of Drama.
Drama 112. Contemporary Drama.
Drama 113-114. Workshop.
**Drama 213-214.* Advanced Acting and Scene Study.
Music 111-112. Music Theory I.
**Music 211-212.* Music Theory II.
Poetry Workshop 112.

**Poetry Workshop 211.*
Writing Workshop 111.
**Writing and Performance 212.*

HUMANITIES DIVISION

Comparative Literature 113. Introduction to Short Fiction.
Comparative Literature 212. Masterpieces of the Middle Ages.
Comparative Literature 213, 214. Forms of Modern Drama.
Comparative Literature 215. European Romanticism.
Comparative Literature 217. Spiritual Dimensions in Modern Literature.
Comparative Literature 222. Literary Criticism.
Comparative Literature 224. Before the Abyss: German Literature, 1915-1933.
Comparative Literature 312. Theory and Methodology of Comparative Literature.
English 115-116. American Literature.
English 120. Mid-Eighteenth Century Literature: Dr. Johnson and his Circle.
English 213, 214. Images of Woman in English and American Literature.
English 219. Modern Poetry.
English 225. The Genre of the Novel: Problems in the 19th and 20th Centuries.
French 121, 122. Intermediate French.
French 215. The Exaltation of Individualism.
**French 216.* Prose in the 19th Century.
**French 227.* Symbolism.
**French 228. "Pièces noires"* of the 20th Century.
History 111. Tudor-Stuart England.
History 112. Modern Britain.
History 211, 212. The Medieval Revival, 1000-1300.
History 215, 216. Renaissance and Reformation.
Linguistics 113. Infroduction to Linguistics.
Linguistics 114. Modern Linguistic Theories.
Philosophy 113. Introduction to Existentialism.
Philosophy 115. The Search for Community.
Philosophy 212. The Problem of Evil.
Philosophy 311. Concept of the Person.
Philosophy 314. Jean-Paul Sartre.

SOCIAL SCIENCES DIVISION

Anthropology 113-114. Cross-Cultural Anthropology.
**Economics 213-214.* Labor Economics.
Government 113. European Political Systems.
Government 213. Government and Politics of the Soviet Union.
Government 214. Contemporary Constitutional Systems.
Government 227, 228. International Law and Organization.
Psychology 113. The Human Condition.
Psychology 115. Psychology of the Person.
Psychology 116. Social Psychology.
Psychology 211. Contemporary Problems in Human Adjustment.
Psychology 213. Child Psychology.
Psychology 214. Psychology of Personality.
Sociology 113-114. General Sociology.
Sociology 115-116. American Social Structure.

SCIENCES DIVISION

Botany 111. Plant Form and Function.
Botany 112. Systematics of the Local Flora.
**Botany 211.* Plant Anatomy and Histological Methods.
**Botany 213.* Biology of the Fungi.
**Botany 214.* The Fleshy Fungi.
History of Science 111. Sciences in Western Civilization.
History of Science 112. Sciences in Western Civilization.
**History of Science 211.* Galileo and the Scientific Revolution.
**History of Science 212.* Institutionalization of Science.
Mathematics 111-112. Calculus I.
Mathematics 211-212. Logic of Mathematics.
Philosophy of Science 116. Basic Readings in the Philosophy of Science.

Planning for a Career

A COLLEGE education is never an end in itself. Whether a man intends to enter upon his career immediately after graduation or to continue his education in a graduate or professional school, Hamilton endeavors to help him choose wisely and prepare himself appropriately.

FOUNDATIONS FOR A CAREER

Counseling

Upon matriculation at Hamilton College, each student is assigned to an Adviser, who is directly responsible for advising the student on academic matters for his first two years. The Adviser will consult with other members of the Board of Advisers, as may be necessary, concerning any academic problems the student faces. During April of his sophomore year the student declares the subject in which he wishes to concentrate; thereafter he becomes the responsibility of the appropriate departmental chairman or his representative. Both the Dean and the Associate Dean may also be consulted in their offices in Root Hall, and each member of the faculty makes himself available for his students to see him individually.

Preparation for the Professions

Since a great many Hamilton men continue in graduate study, proper education for such work is an important aim of the College

curriculum. One of the most significant recommendations which a man may present to a graduate school of any kind, or to any employer, is a good academic record in a reputable college. Certainly the student will wish that record to show preparation suited to his career or to the proposed graduate study. The faculty advisers of the College have as one of their prime responsibilities that of helping the student to plan his program with an eye to such needs. The following brief comments may be helpful to the undergraduate in planning his work in relation to the various types of graduate study.

Engineering

To meet the needs of students who wish to combine liberal arts with education in engineering, Hamilton College has entered into cooperative arrangements with the School of Engineering of Columbia University, Massachusetts Institute of Technology and Rensselaer Polytechnic Institute. Under this arrangement qualified students may plan a combined course of study of which the first three years are spent at Hamilton and the remainder at a cooperating institution. Upon the completion of the program, the student will receive a Bachelor of Arts degree from Hamilton and an engineering degree from the cooperating institution. Full details of this cooperative program may be secured from the Secretary of Admission at Hamilton.

Medicine and Dentistry

Virtually all accredited medical and dental schools require for admission two years of college chemistry, including one year of organic chemistry, one year of biology, and one year of physics. These are minimal requirements and the student should consider other requirements set by the medical schools and his own preparation, particularly in science. In addition to the preceding courses, many schools either require or strongly recommend one or more years of English, mathematics through the first year of calculus, foreign language, and additional science courses. The student may receive helpful suggestions from his faculty adviser, from the faculty premedical committee, and from instructors in science. In the final analysis, however, the student is responsible for meeting the requirements of the medical schools of his choice and he should consult the individual catalogues as soon as possible.

Graduate Study in Arts and Sciences

In considering his career, an undergraduate will find it helpful to consult very early during his college years with the chairman of the department in which he believes that he will concentrate. He will wish to know what courses are most appropriate to an undergraduate concentration; he may wish to know what other courses will be most helpful to him if he decides to seek graduate degrees. As examples, a student considering a career in chemistry needs to know what courses will enable him to qualify for a certificate issued by the American Chemical Society as well as the courses most helpful towards graduate work in chemistry. A student considering geology as his concentration should be mindful that the other natural sciences are useful both to the potential concentrator and to the future geologist. A student wishing to concentrate in biology should be aware that mathematics is a useful tool.

In fact, both for the scientist and for the social scientist, particularly the economist, mathematics is most important. Any student planning a career in science or in mathematics should take mathematics at least through analytic geometry and elementary calculus. Certain types of scientific study will require further study in mathematics.

Any student planning on graduate work should also be certain that he is aware of the foreign language requirements demanded in his subject. Many programs require a reading knowledge of French or German for the master's degree and of both for the doctor's degree. For example, a student planning on graduate work in music should certainly have both these languages well in hand. Other programs, whether in the humanities, the social sciences, or the sciences, are more flexible in their requirements, encouraging the study of that language or languages which are most directly pertinent to the particular interests of the student. For this reason a student should consider whether Greek, Latin, Russian, or Spanish will be helpful to him.

Whatever his interests may be, a student contemplating graduate work should consult the catalogues of major universities as to the requirements for advanced work. The knowledge so gained will permit him to plan his work, in consultation with the appropriate departmental chairman, in an intelligent way.

Teaching

Hamilton is proud of the number and quality of its graduates who are successful school administrators and teachers. The preparation of teachers is considered by the faculty to be an all-College responsibility. Representatives of each department participate in selecting and advising students and in planning curricula for teacher preparation. An undergraduate who expects to become a teacher should discuss his plans with the Education Department, including his plans for graduate study, and with the representative of the department of concentration as early as possible, in order that he may be guided in selecting those courses that will best prepare him to meet the requirements of his prospective profession. The undergraduate planning to become a public school teacher will usually elect three year-courses in education, including practice teaching, and will probably concentrate in the subject which he expects to teach. The courses in education are designed for students who wish to satisfy the professional requirements for the provisional certificate to teach an academic subject in the State of New York. These courses also satisfy similar requirements in almost all other states.

For graduate work leading through a one-year program to the degree of Master of Arts in Teaching, Hamilton has entered into a cooperative program with Harvard University, through the support of the Fund for the Advancement of Education. This degree prepares the holder to teach, according to his specialty, in primary or secondary schools or in junior colleges. There are other graduate programs available; for the details concerning these, the program at Harvard, and the preparation involved, the undergraduate should consult with the Hamilton Department of Education.

Business, Law, Government Service

For many careers and professions it is impossible to prescribe any set program—for example, the law, ministry, business administration, or government service. The best preparation for these is probably well-developed skills in reading, speaking, and writing, a wide choice of courses and concentration in the area which the student finds most interesting. Students intending to enter a graduate school of business administration are strongly advised to take mathematics at least through elementary calculus.

The College also recognizes the increased interest in and importance of post-graduate study abroad. Members of the faculty are therefore prepared to counsel seniors about opportunities for foreign teaching and study projects.

Placement Office

Although approximately 70 percent of each senior class at Hamilton goes on to graduate study for one or another of the professions, many graduates enter business careers. The Placement Office, located in the Bristol Campus Center, exists to aid them in securing positions suited to their aptitudes and interests. Information on nearly 500 leading industries and government agencies is available in the office throughout the year, and in the spring interviews for interested students are scheduled with representatives of over 50 major American corporations who visit the campus. The office maintains a personal file on each student interested in these interviews. A series of objective monographs, prepared by a vocational research firm, is available for review by students attempting to determine vocational goals. More than 300 occupations are covered.

Through a cooperative arrangement with Colgate University students may also register for interviews at Colgate. In addition, the two colleges annually alternate sponsorship of a two-day Careers Conference. In "off" years, the Hamilton Placement Office sponsors a series of specialized panels to acquaint students with the opportunities and requirements of various careers. Assistance in finding summer employment is also available through the Placement Office.

GENERAL INFORMATION

The College and Its Resources
Undergraduate Life

The College and Its Resources

HAMILTON COLLEGE is located near the center of New York State, nine miles from the city of Utica and one mile from the village of Clinton. The post office address of the College is Clinton, New York 13323.

Direct railway service is available to Utica, which is served by the Penn-Central Railroad. The Oneida County Airport, served by Mohawk Airlines, and the Westmoreland Exit of the New York State Thruway (Exit 32) are within twelve miles of the campus.

Railway express service is provided to Clinton by the Railway Express Agency, which delivers from its Utica depot to dormitories and fraternity houses.

BUILDINGS AND GROUNDS

The campus itself is a wooded park of about three hundred acres overlooking the Oriskany and Mohawk valleys. In 1951, through the generous gift of members of the Root family, the ROOT WILD GARDEN, consisting of over two hundred acres of land located south of the Root Glen, was added to the college campus. In all, the College buildings and grounds consist of about nine hundred acres of land and twenty-six buildings, compactly arranged in three quadrangles. Most of these buildings are constructed of a limestone quarried only a few miles from the campus.

In addition, the College has 96 houses and apartment units avail-

able for use by members of the faculty or staff and their families. Eleven fraternity houses furnish living quarters for many of the students.

Dormitories

Five buildings—KIRKLAND (1840), NORTH (1842), CARNEGIE (1904), SOUTH (1906), and DUNHAM (1958)—afford sleeping accommodations for nearly two-thirds of the student body. All freshmen are required to live in College dormitories; unmarried upperclassmen are required to live in either a fraternity house or dormitory.

Two dormitories for approximately 150 upperclassmen are now under construction in the new HARLOW E. BUNDY QUADRANGLE on the south side of College Hill Road below the Bristol Campus Center.

The four older dormitories have been modernized and redecorated in the past decade and new furniture has been installed during the post-war years. The dormitories are equipped with an automatic fire-alarm system for the protection of life and property.

DUNHAM DORMITORY is arranged in suites of three rooms for four men. Single rooms are available for upperclassmen in KIRKLAND and NORTH. CARNEGIE and SOUTH are arranged in suites for two, three, or four occupants. Essential furniture—beds, desks, chairs, and dressers —is provided. All dormitory beds are three feet wide and six feet six inches long. Rooms are leased for the academic year only. The buildings are closed during vacation and the College reserves the right to use dormitory rooms during holiday periods.

Classrooms, Laboratories, Offices

Seven buildings are devoted to instruction: SILLIMAN HALL, BENEDICT HALL OF LANGUAGES, ROOT HALL, TRUAX HALL OF PHILOSOPHY, the CHEMISTRY BUILDING, the SCIENCE BUILDING, and the ROOT ART CENTER. Silliman Hall (1889), originally the gift of Horace B. Silliman, Honorary '90; Benedict Hall (1897), the gift of Horace Harper Benedict, class of 1869; Truax Hall (1900), a gift of Chauncey S. Truax, class of 1875; and the Chemistry Building, which was erected in 1903 and rebuilt and enlarged in 1930, all provide classroom facilities. Root Hall, given by Elihu Root, class of 1864, in memory of

his father, Oren Root, class of 1833, contains classrooms, the offices of the Dean, Associate Dean, and the Secretary of Admission, and three studios, the gift of the late Edward Wales Root, '05. The Science Building, constructed in 1925 and enlarged in 1965, contains a science library, departmental classrooms, and laboratories in physics, geology, biology, psychology, and anthropology. The Root Art Center (1804), formerly the home of the late Edward Wales Root, an eminent art collector, was purchased by the College in the summer of 1962. In addition to art galleries, it contains the offices of the Music Department, classrooms, practice and listening rooms and a record library.

Administration Building

Built in 1812, BUTTRICK HALL is as old as the College itself. As the birthplace of Elihu Root, the building is of historical interest. In 1926 it was restored and reconstructed as the administrative headquarters of the College. Buttrick Hall now houses the offices of the President, the Vice President and Provost, the Vice President for Development and his Assistants, the Controller, the Director of Alumni Affairs, the Director of Public Relations, and the Assistant to the President. Meetings of the Board of Trustees and faculty are held in the building.

Bristol Campus Center

The William McLaren Bristol Campus Center, opened in 1966, is a four-story student activities building named after the co-founder of the Bristol-Myers Co., a member of the class of 1882. Funds were provided primarily by his sons, William M. '17 and the late Lee H. '14; they were joined by other members of the family and friends. Facilities include a large snack bar, six bowling lanes, billiards, table tennis, book store, mail center, laundromat, lounges, meeting rooms, offices for student organizations and guest rooms.

Afro-American Cultural Center

The Afro-American Cultural Center, opened in 1969, affords facilities for the presentation of the black perspective through discussions, lectures, art exhibits, and similar educational, cultural and so-

cial events. The Center is open to, and is used by, all members of the College community.

The Chapel

The Chapel, restored in 1949 as a World War II memorial, occupies the central site of the campus. Designed in 1827 by Philip Hooker and completed the following year, the Chapel is thought to be the last remaining example of an early three-story church in America. The center of the religious life of the College, it also affords a place for public lectures, college assemblies, and concerts.

Kirkland Cottage

The oldest (1792) building on the campus, Kirkland Cottage was first built near the foot of College Hill as a home by Samuel Kirkland, the founder of Hamilton College. In 1925 the cottage was moved uphill to its present campus site and later restored. Its furnishings now include Samuel Kirkland's desk and chair and other pieces of historical interest to visitors. The cottage is used by Pentagon, senior honor society, for its meetings.

The Health Center

The Thomas Brown Rudd Health Center, named for the College's thirteenth president, was completed in the fall of 1959. It contains fourteen beds, isolation room facilities, modern and fully equipped examination and treatment rooms, X-ray and laboratory facilities. The Center is supervised by a full-time physician.

Students are attended by the College Medical Director who is available in the Health Center at regularly scheduled hours and is on call in cases of emergency. Associated with him are a clinical psychologist and registered nurses in regular attendance. A psychiatrist, an orthopedic surgeon and a radiologist act as consultants to the Health Center staff. Consultants in other fields are used as indicated.

The Commons

The SOPER COMMONS, gift of Arthur W. Soper, Honorary '93, Alexander C. Soper, 1867, and James P. Soper, was built in 1903 and extensive renovations were completed in 1958 and 1968. The building includes a large dining hall and an Edwardian pub.

The Minor Theater

The theater is housed in what was once the Perry Hiram Smith Hall, which was the College's first library and later became an infirmary. Architect Edward D. Stone converted the building into a theater in 1962. The donor was the late Clark H. Minor '02, one of the College's most generous benefactors and chairman of its board. The basement contains the studios of WHCL-FM and a music rehearsal room.

Athletic Facilities

The ALUMNI GYMNASIUM (1940), gift of some three thousand alumni and friends of the College, contains a regulation swimming pool, courts for basketball, squash, and badminton, locker and team rooms, a library, and the Baker Memorial Lounge Room, as well as offices for members of the physical education staff.

The RUSSELL SAGE BUILDING (1921), which is connected with the Gymnasium, houses an 85- by 200-foot indoor artificial ice rink and a 220-yard cinder running track. The hard-surface floor is used during fall and spring for indoor tennis, and for volleyball and football practice during inclement weather.

Adjoining these buildings are the STEUBEN FOOTBALL FIELD with its quarter-mile cinder track, a baseball diamond, nine all-weather tennis courts, and a soccer and lacrosse field, as well as intramural fields.

The HAMILTON B. TOMPKINS GOLF COURSE, covering sixty-five acres, constitutes part of the campus.

THE LIBRARY

The Library, considered a laboratory of the liberal arts, holds over 280,000 volumes. It is growing at the rate of approximately 10,000 volumes a year. About 800 periodicals are received regularly, includ-

ing certain microfilm and micro-card editions. The Browsing Room, for students' leisure-time reading, houses 1,600 volumes.

Students have free access to the stacks and are instructed in the use of catalogues, bibliographies, and reference works, and in other research techniques. Typing space and research desks for students undertaking independent studies and term papers are provided. Use of the Library is covered by the Honor System (page 106). Books may be borrowed for a full semester and no library fines are imposed.

Noteworthy among the Library's special holdings are the Ezra Pound Collection, the Rare Book Collection, the Alumni Collection of books written by and about graduates of the College, the Samuel Hopkins Adams Collection of College and Regional History, and the Edward Robinson Collection of books on Palestinian travel.

The collections of the anthropology, biology, geology, mathematics and physics departments, together with works in applied science, totalling some 35,000 volumes, are housed in the Science Building Library. Chemistry books are housed in the Chemistry Building Library.

The Library, which is shared with Kirkland College, will be replaced by a new structure in 1972 on the site of the Truax Hall of Philosophy.

Undergraduate Life

The STUDENT SENATE, a body of twenty undergraduates representing all four classes, all eleven fraternities, and the non-fraternity men, serves as the governing body for student affairs and meets bi-weekly throughout the year. It is the parent body of five undergraduate groups, as follows:

The STUDENT INTRAMURAL COUNCIL, which, with the advice of the Director of Athletics, assumes full responsibility for the conduct and scope of intramural athletics;

The STUDENT ENTERTAINMENT COMMITTEE, which is the steering committee for such events as Fall and Spring Houseparties, Jazz Weekend, Winter Carnival, the Northeastern Intercollegiate Folk Festival, and other social activities;

The STUDENT ADMISSION COMMITTEE, which works closely with the Office of Admission to interest promising high school and preparatory school students in Hamilton;

The STUDENT CURRICULUM COMMITTEE, which is organized to consider and recommend to the faculty additions or changes in the College curriculum.

The JUDICIARY BOARD administers the social rules. It is composed entirely of undergraduates who are elected by the student body. The Board investigates all alleged violations of student regulations and, when necessary, determines appropriate punishment. The Board's recommendations are subject to review by the Associate Dean of the College.

Undergraduates are represented on a number of joint faculty-student groups. Among them are the Root Art Center Board, the President's Advisory Committee, the Drug Committee, the Publications Board, the Lecture Committee, and the Bristol Campus Center Board.

Honor System

The administration of examinations, the preparation of certain compositions outside the classroom, and the use of the Library are governed by the student Honor System, established by students over fifty years ago. The Honor System creates for each student two imperatives: he must refrain from fraud himself, and he must report any observed fraudulent action on the part of any other student.

The System, which receives strong support from both the students and the faculty, permits examinations to be taken without proctors and generally gives the student more personal freedom than would be possible without the System.

The Honor System is carefully explained during the new student's orientation period and is fully described in the *Student Handbook.* Administration of the Honor System is by an Honor Court composed of representatives of the four classes. This Court investigates all alleged violations of the Honor System and makes recommendations to the faculty for action against violators.

Religious Services

Although under no denominational control, the College acknowledges its historic debt both to the Christian faith and to the devotion of its founders. Public worship is observed each Sunday. The sermons are by the Dean of the Chapel, other members of the faculty, or guest preachers. Communion is celebrated regularly during the College year.

Roman Catholic Masses are celebrated in the Chapel each Sunday morning, and Jewish services are held there each Friday evening. Episcopal services are also conducted on the campus regularly.

Various area clergymen are available to students for advice and counsel. In addition, several local churches sponsor activities especially designed for Hamilton students.

A memorial to John Herschel Morron, of the class of 1859, established by the bequest of his son, John R. Morron, provides an endowment, the income of which has been used to establish the annual JOHN HERSCHEL MORRON LECTURESHIP in religious thought.

The CHAPEL BOARD, composed of students and faculty members, advises the College on programs of worship. The board also sponsors a series of seminars conducted by various members of the fac-

ulty on subjects of religious interest; arranges for Communion services; sponsors a series of motion picture programs; and conducts a yearly Campus Fund campaign for the benefit of various service groups and charities.

Lectures

Numerous lectures and concerts are provided during the year for the college community from the income of endowments established for the purpose, augmented by general college funds.

The MYERS LECTURES were established in 1912 in memory of John Ripley Myers, of the class of 1885. The foundation is intended "to bring into the life of the college community new men and new points of view not covered by the ordinary curriculum of the College, and to add to its cultural possibilities."

The WOOD MEMORIAL LECTURESHIP was established in memory of Frank Hoyt Wood, for many years professor of political science at the College.

The WINSLOW LECTURES IN CLASSICAL ARCHAEOLOGY were established with a bequest by William Copley Winslow, D.D., of the class of 1862.

The TRUAX MEMORIAL LECTURES IN PHILOSOPHY were established in 1956 by R. Hawley Truax, of the class of 1909, in memory of his father, Chauncey S. Truax of the class of 1875, to strengthen the instructional program in philosophy through visits to the College by distinguished lecturers in that field.

Art Program

The Art Department, through the generosity of the late Edward Wales Root of the class of 1905, has been provided with three skylighted studios, an exhibition room, and offices for the members of the Department, all located in Root Hall. Mr. Root's gift also made possible the purchase of equipment and materials for individual instruction in creative drawing and painting.

Seven annual exhibitions are presented in the ROOT ART CENTER, accompanied by gallery talks corresponding to the shows. Works of art for the exhibitions are provided by the Munson-Williams-Proctor Institute of Utica. The excellent permanent and visiting exhibitions at the Institute are also available to students. The Art Center also provides space for special lectures and concerts, music practice and

listening rooms, and facilities for meetings and receptions.

In addition, a series of 14 exhibitions are scheduled in the lounges of the Bristol Campus Center, changing approximately every other week during the academic year. A wide variety of graphic forms are selected and hung by the Campus Center Student Exhibitions Committee.

The ART LENDING LIBRARY, administered by the Bristol Campus Center, consists of a collection of about two hundred original prints, copies, and sculptures. Students may rent the pictures in this collection by the semester for a nominal fee.

Athletics

POLICY. Hamilton College follows an athletic policy that reflects and interprets the educational philosophy and ideals of the College. There are three interlocking programs: intercollegiate sports, the intramural program, and the individual development program, which consists of individual instruction leading to proficiency in a number of different sports, all of which have postgraduate value. The wide variety of approved sports in the three programs makes it possible for every student to engage in a form of athletics suited to his individual needs. Freshmen are eligible for varsity competition.

SCHEDULES. Sports events generally are scheduled with colleges whose size, educational standards, and athletic policy are similar to Hamilton's. Hamilton is a member of the National Collegiate Athletic Association and the Eastern College Athletic Conference. The faculty sets limits and gives final approval to all athletic schedules.

The ATHLETIC DEPARTMENT is one of the academic departments of the College. The coaches, who are members of the faculty, conduct the regularly-scheduled physical education classes. The department's budget is one part of the academic budget; the department's finances are directed by the College Business Office.

The recognized intercollegiate sports are football, soccer, cross-country, basketball, ice hockey, swimming, baseball, golf, lacrosse, tennis, and track. Informal intercollegiate competition is sometimes conducted also by ski and sailing groups. Squash is a club activity. Intramural competition is normally held in touch football, basketball, ice hockey, track, softball, golf, tennis, volleyball, swimming, table tennis, bowling, billiards, badminton and handball. The student Intramural Council assumes responsibility for intramural sports.

The BLOCK H CLUB, consisting of those undergraduates who have received their letters in varsity sports, is dedicated to working for the best interests of athletics at Hamilton College.

Eleven athletic awards are given annually to varsity players who are outstanding for the sportsmanship, personal attitude and general contribution to their team: the THOMAS MOORE SHERMAN AWARD, established by Sherrill Sherman '04, in golf; the JOHN STRICKLAND AWARD, established by John Strickland, '05, in baseball; the FOWLER AWARD, established by Richard S. Fowler, '23, in football; the PAULDING F. SELLERS, JR., AWARD, established by Harry O. Harman, '30, in hockey, the JAMES H. CAMPBELL AWARD, established by Donald C. Hiler, '30, in basketball; the SHULMAN AWARD in soccer, established by Mandel G. Shulman, '44; the CLASS OF 1904 AWARD in tennis; the CRANE AWARD in cross-country, established by Dr. A. Reynolds Crane, '29; the AHNER AWARD in track, established by Walter L. Ahner, '28; the BLOCK H AWARD in lacrosse, established in memory of William J. Humphrey; and the FRIENDS OF HAMILTON AWARD in swimming.

Debating

Debate at Hamilton has had a long and successful history. Each year members of the Debate Club travel around the country to par-

ticipate in the top tournaments. A parliamentary debate program featuring humorous topics has been very successful. Since 1922, Hamilton has had a chapter of Delta Sigma Rho, the honorary forensic society.

Dramatics

The CHARLATANS, the College dramatic society, was organized in 1909 by a group of students headed by Professor Emeritus Robert Barnes Rudd and the late Alexander Woollcott. Today, as then, membership in the group is open to all students having an interest in dramatics or stagecraft. Usually the Charlatans present four full-length productions and the three best student-written, one-act plays each year. Outstanding work with the Charlatans is a prerequisite to election to ALPHA PSI OMEGA, national honorary dramatics society, the local chapter of which was established in 1951. Performances are held in the Minor Theater.

Music

The musical life of the College is active and varied. It includes concerts by visiting professionals as well as by student organizations, and is under the general supervision of the Music Department. Recent musical events at the College have included concerts by the New York Pro Musica, the New Percussion Quartet, the Gregg Smith Singers, and the Paris Chamber Orchestra. Some five or six concerts are presented each year by student musical groups and musicians. Additional concerts are offered nearby in Utica by the Chamber Music Society of Utica, the Utica Symphony, the Utica Opera Guild, and the Great Artists Series. The Student Entertainment Committee also contributes to the musical life of the College, sponsoring Intercollegiate Folk Festivals and Jazz Weekends. The record library in the Root Art Center contains an extensive and growing collection of phonograph records of music from the Western tradition, including both classical and folk music. Holdings in non-Western music are being increased.

The COLLEGE CHOIR is devoted to the performance of the best choral music from all periods. In recent years it has sung with Smith, Vassar, and Wesleyan. The Paris Chamber Orchestra returns an-

nually to collaborate in the presentation of a major choral work such as the Bach *B Minor Mass*. The Choir made its first European tour in the summer of 1968 and expects to return in 1971. Many members of the Choir are interested in folk music and jazz, and opportunities are provided for individual musical expression. Ability to sing is the only requirement; previous choral experience is unnecessary.

The BRASS CHOIR has numerous opportunities to perform throughout the year, providing music for various College functions as well as giving concerts off campus on its own or in conjunction with the College Choir. Its repertoire ranges from Josquin and Gabrieli to Hindemith and Dahl, and it has made two recordings.

The WOODWIND ENSEMBLE affords an opportunity for the study and performance of music for various combinations of wood instruments. Recent concerts have included works by Ibert, Mozart, Fine and Richard Strauss.

The CHAMBER ORCHESTRA gives at least one concert a year, often in conjunction with a women's college. It also participates in other concerts, both on and off campus, playing works by such composers as Beethoven, Vivaldi, Ives and Stravinsky.

The BUFFERS is an octet which specializes in popular, folk, barbershop and light music. The group performs at social events at Hamilton and other colleges as well as informal concerts on Choir tours.

INSTRUMENTS. The College possesses a number of instruments that are available for student use. In addition to four pianos and various wind and brass instruments, Hamilton has a Steinmeyer one-manual *positif* organ, a three-manual Chapel organ, and a two-manual Dowd harpsichord. The College is now augmenting its collection with the purchase of ancient instruments for the authentic performance of medieval and renaissance music. For information on the study of performance and the use of these instruments, consult the Music Department.

Publications and Broadcasting

All student publications are managed by the HAMILTON COLLEGE PUBLICATIONS BOARD, an organization consisting of representatives of the student body, faculty and administration. The chairman of the board is always a student. The Board is responsible for the editorial policy of publications, for the adjudication of editorial problems, and for financial management. All business matters are directed by a student business manager.

Student publications are *The Spectator,* a weekly newspaper, *Canossa,* a literary magazine, and *The Hamiltonian,* the College's yearbook. An annual payment of the Over-all Fee (page 14) entitles students to receive all publications.

The COLLEGE PRESS BOARD provides an opportunity for students interested in journalism to gain both practical experience and remuneration by serving as correspondents for newspapers published in neighboring cities and for such news services as the Associated Press and the United Press International. Interested students should consult the Public Relations Office.

For outstanding work on College Publications or the Press Board, students may be elected to the local chapter of PI DELTA EPSILON, the national honorary journalism fraternity.

RADIO STATION WHCL-FM, operated entirely by students, broadcasts daily to the area. Music, sports, news, debates, and lectures on timely subjects constitute most of the station's schedule.

Clubs

Students interested in a particular field of study find a common ground in the DEPARTMENTAL CLUBS which meet at intervals during the college year. Discussions, presentation of papers, and a social hour provide the customary program, and meetings take place either in fraternity houses or at the homes of faculty members. Field trips may also be held. Among such groups are the clubs sponsored by the biology, French, Spanish, and German departments.

The ROOT-JESSUP PUBLIC AFFAIRS COUNCIL is an undergraduate organization, with student officers and a faculty adviser, whose purpose is to stimulate and plan student discussions on current international issues. The group meets twice a month and sponsors lectures and informal discussions conducted by the student members. It also conducts a weekly radio program on WHCL-FM and publishes a magazine, *Comment.*

The FILM SOCIETY, directed by students, presents a program of quality motion pictures, domestic and foreign. KINOKUNST-GESELLSCHAFT regularly features motion picture classics of the past.

The ALEXANDER HAMILTON PRIVATE PRESS is a non-profit student activity devoted to producing small, limited editions of materials of historical or literary interest. Emphasis is placed on quality printing. All type is set by hand and printed in the basement of Root Hall.

The OUTING CLUB organizes and conducts hiking and camping trips, winter mountaineering, rock climbing and cave explorations. It also sponsors lectures and films on these subjects. It is a member of the Intercollegiate Outing Club Association which helps coordinate trips with other men's and women's colleges.

The HAMILTON-KIRKLAND BLACK UNION was founded in 1968 by black students of both Colleges. The Black Union, although primarily concerned with making the Hamilton experience more relevant to black students, makes an effort to become involved in the activities of black communities off the Hill. The Afro-American Cultural Center was established in 1969 to make more visible and vivid the reality of black culture and history. Its activities, programs, and exhibitions are sponsored by the Black Union.

Service Organizations

Students interested in making a contribution toward the solution of some of modern society's problems discover a number of rewarding opportunities for doing so in student service organizations. At present, over 15 percent of the College's students participate in at least one of these groups, which are operated independently, chartered by the Student Senate, and coordinated by the Chapel Board.

UTICA TUTORIAL PROJECT AND FREEDOM SCHOOL provide Hamilton student tutors for disadvantaged junior high school pupils in Utica on a weekly basis throughout the academic year. They conduct a variety of special programs evenings and weekends designed to enhance the view which these youngsters have of higher education. Begun as separate projects several years ago, the two programs are merging this year.

THE COOPERATIVE PROGRAM TO REALIZE INDIVIDUAL POTENTIAL (CONSORTIUM SCHOOL) is a project developed by the six higher educational institutions in the greater Utica area in an effort to bring significant improvement in the teaching techniques employed in the secondary school level. Because of its unique marshalling of community resources and the significance of its program, the Consortium School is supported with funds made available by the Federal Government in addition to local tax monies in the amount of nearly $1 million over a three-year period, beginning July 1, 1968. Students from the participating colleges, including five from Hamilton, serve during the summer as well as the academic year as "counselor-tutors."

THE MARCY STATE HOSPITAL PROGRAM conducts a program of weekly visitations by Hamilton students at a nearby mental institution. The student volunteers teach classes in art, music appreciation, current events and a variety of other subjects for patients, who are primarily geriatric cases. Field trips throughout the Utica area and attendance at Hamilton College events are included in the program.

THE GILLMORE VILLAGE RECREATION PROGRAM was initiated in 1968 in answer to a request from a division of the Utica Community Action Commission. Working with volunteers from Utica College, Hamilton students have organized a weekly recreation program for youngsters living in this low-income housing development.

ST. ELIZABETH'S HOSPITAL PROGRAM provides Hamilton volunteers with an opportunity to contribute services to a fairly large, community hospital. Although not limited to pre-medical students, the program is of special interest to this group.

THE UTICA CHILDREN'S HOSPITAL PROGRAM was organized in 1968 in response to a request from this Utica-based hospital, which specializes in treating young people with a variety of physical handicaps. The Hamilton volunteers have organized recreation activities and also serve as "big brothers" to patients, establishing relationships with patients in an effort to foster faith and trust in people.

THE HANDICAPPED CHILDREN'S PROGRAM works closely with the

Utica Cerebral Palsy Association and helps youngsters afflicted with this disease. These volunteers also work on a regular weekly basis, with special emphasis on swimming and other recreational activities.

Social Organizations

Most of the social life of the College is organized around the eleven fraternities which are active at Hamilton: SIGMA PHI (1831), ALPHA DELTA PHI (1832), PSI UPSILON (1843), CHI PSI (1845), DELTA UPSILON (1847), DELTA KAPPA EPSILON (1856), THETA DELTA CHI (1868), EMERSON LITERARY SOCIETY (1882), TAU KAPPA EPSILON (1930),* DELTA PHI (1950), and GRYPHON (1958).†

All the fraternities are represented on the Student Senate (page 105). THE PRESIDENT'S TROPHY FOR SCHOLASTIC ATTAINMENT, an annual award, is given to that group which has made the greatest achievement in scholastic average during the preceding academic year.

Rushing takes place during the first semester, and pledging occurs at the beginning of the second semester. In conjunction with the deferment of pledging which became effective in the fall of 1959, the Student Senate adopted a plan to assure that all freshmen who wish to join fraternities will have an opportunity to do so. Initiation costs average $50; costs of membership average about $100 per semester.

Honor Societies

Each of the three upper classes has an honorary society, members of which are chosen in the spring of the preceding academic year. The senior honorary group, PENTAGON, chooses five men annually on the basis of their leadership and devotion to the College. The junior honorary society, WAS LOS, annually chooses six men who have demonstrated leadership in campus activities. The sophomore honorary body, D.T., elects thirteen outstanding athletes and campus leaders.

The honor societies sponsor such varied campus activities as blood-bank drives and rallies, serve as commencement ushers, and in general pledge themselves to improvement of the undergraduate activities of the College.

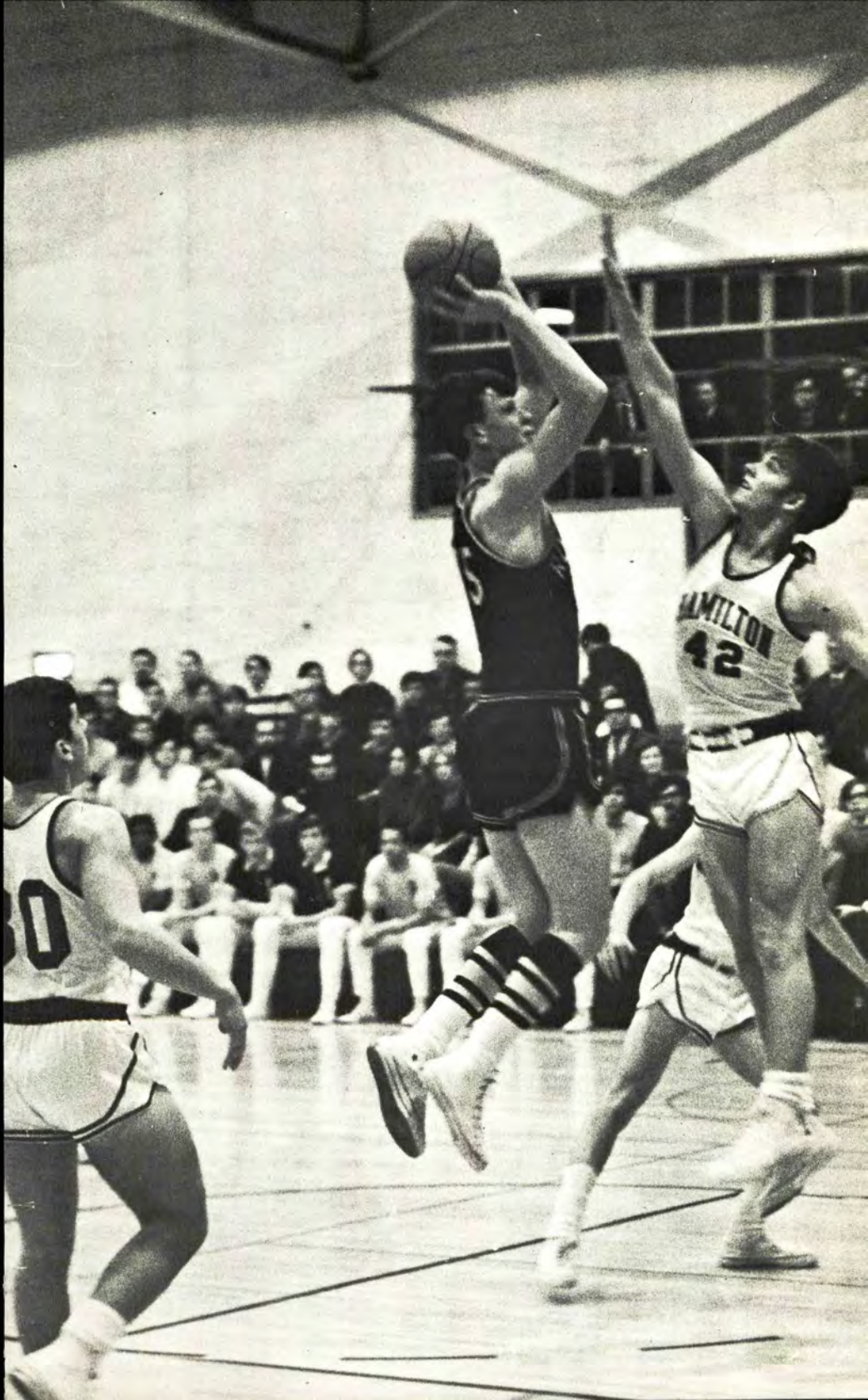
---

* Disaffiliated in 1969, and to be renamed.

† Dates given indicate the year when the Hamilton chapters were established.

Automobiles

Juniors and seniors in good standing who are not receiving scholarship aid may maintain automobiles or other vehicles on or in the vicinity of the College grounds. Similar privileges are extended to sophomores, who must have written permission of their parents. All motor vehicles must be registered with the Associate Dean.


HAMILTON
42

HONORS AND AWARDS

Honors
Fellowships
Prize Scholarships
Prizes

Honors and Awards

HONORS and prizes are conferred for general excellence, or for superiority in a special field. To compete for a prize, a student must be in regular standing. Information concerning details of oration and essay competitions may be obtained from members of the Department of Speech or from the Dean's Office.

Honors

Phi Beta Kappa

The Hamilton chapter of Phi Beta Kappa, known as the Epsilon Chapter of New York, was established in 1870. Students are elected to membership primarily for intellectual distinction. In September, the chapter may choose not more than five seniors having especially distinguished records during their first three years. Other seniors are elected in April. Except by unanimous consent of the chapter, not more than one-eighth of a class may be chosen.

The Society of the Sigma Xi

The Hamilton College Chapter of the Society of the Sigma Xi, the national honor society in science, was installed in 1965. The Society's purpose is to encourage original investigation in science, pure and applied.

Students who show marked aptitude for research are eligible for

election to associate membership. Nominations are usually based on the student's performance in the Hamilton Independent Study program.

Commencement Honors

The valedictorian and the salutatorian are the two seniors whose average grades for the course are respectively highest and second highest.

Department Honors

Department honors may be awarded at Commencement in subjects in which a concentration is possible. To qualify for this honor a student must have a cumulative average of at least 85 in all departmental courses acceptable for a concentration. He must also attain a grade of at least B on his comprehensive examination and must receive the recommendation of the department of concentration.

At Commencement students may be cited for excellence in Speech upon recommendation of the department.

Fellowships

The Glass Fellowship in Biology

The Glass Fellowship in Biology, established under the will of Dr. James H. Glass, M.A. (Hon.) 1912, is granted for two years of graduate study in biology. It carries a stipend of $750 per year.

Any member of the senior class who has proven himself of a high order of scholarly attainment in general, and has shown marked ability and special aptitude for research in biology, may be nominated to the faculty by the Biology Department. From the men thus nominated the faculty will select one who shall be recommended to the trustees for appointment.

The Root Fellowship

The Root Fellowship in Science, established in 1894 by the Honorable Elihu Root of the class of 1864, is ordinarily granted for a single year of graduate study at some American or European university approved for that purpose in each individual instance by the faculty.

Any member of the senior class of high standing who has shown marked ability and special aptitude for research in one or more of the departments of science may be nominated for this award by those departments. From the men thus nominated, the faculty will select one who shall be recommended to the trustees for appointment.

Prize Scholarships

Prize scholarships are competitive and are awarded to students in recognition of outstanding achievement. A number of scholarship foundations, established by alumni and friends of the College, support them.

To be eligible for a prize scholarship, a student must have maintained for the previous semester a C average with no failure and no delinquency in attendance.

Arnold Prize Scholarships

The Benjamin Walworth Arnold Prize Scholarship Fund, given by Mrs. Benjamin Walworth Arnold in memory of her late husband, provides four prize scholarships, of which one is to be given annually to that holder of a regular scholarship in each college class who in the preceding year (or in the first semester in the case of freshmen) shall have made the best record in his college courses.

General Prize Scholarships

CURRAN PRIZE SCHOLARSHIP. A foundation established by relatives of Colonel Henry H. Curran of the class of 1862 provides a scholarship for a student who has need of financial aid, who has enrolled

in the courses in the Department of Classical Languages, and has distinguished himself therein.

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN GREEK. Founded by E. Root Fitch of the class of 1886, a scholarship is awarded annually to that student who, on completion of Greek 11-12, shall have maintained the best record in that subject. To be eligible for the award, the appointee must elect Greek 21-22.

E. ROOT FITCH PRIZE SCHOLARSHIP. A scholarship founded by E. Root Fitch of the class of 1886 is awarded annually to that member of the Hamilton chapter of Delta Upsilon who, having maintained at least a C average for two consecutive years, makes in the second of these years the greatest improvement in this scholastic record.

VROOMAN PRIZE SCHOLARSHIP. Through the generosity of John W. Vrooman, a foundation provides a prize scholarship to be awarded to a freshman who shall have achieved academic excellence, shall have need for scholarship aid, and who shall have enrolled for at least one course in the Department of Classical Languages.

Senior Prize Scholarships

Three senior prize scholarships are awarded each year in mathematics, Latin, and German. Each is awarded for excellence in the specified field as determined by the recipient's work in his freshman, sophomore, and junior years, and at the discretion of the departments, by a competitive examination at the end of the junior year. It is required that the appointee elect in his senior year at least one advanced course in the department of the award and complete the senior year at Hamilton. These prizes are:

(1) The EDWARD HUNTINGTON MEMORIAL MATHEMATICAL SCHOLARSHIP, founded by Alexander C. Soper, LL.D., of the Class of 1867;

(2) The ARTHUR W. SOPER LATIN SCHOLARSHIP, established by Arthur W. Soper, M.A. (Hon.), 1893;

(3) The DUELL GERMAN SCHOLARSHIP, founded by the Honorable Charles Holland Duell, LL.D., of the Class of 1871.

CHAUNCEY S. TRUAX PRIZE SCHOLARSHIP IN GREEK. The Truax Scholarship is awarded to that senior who shall have stood highest in the study of Greek for the first three years with an average grade of no less than 85. Preference will be shown to candidates who entered Hamilton as freshmen with credit in Greek.

FRANK HUMPHREY RISTINE SCHOLARSHIP. Established by former students and other friends of the late Frank H. Ristine, professor of English literature from 1912 to 1952, the Ristine Scholarship is awarded for excellence in English. Consideration is also given to general academic standing, need for financial aid, and campus citizenship.

CAPTAIN GERALD FITZGERALD DALE SENIOR SCHOLARSHIP. This scholarship is awarded to a senior who has completed his junior year with distinction in literature, language, music, science or social science and ranks in the top tenth of a class over one hundred in number or in the top quarter of a class of fewer than one hundred and who needs financial aid. In addition, he must have demonstrated his promise for useful citizenship by his character, his standing among his fellows, and his contribution to the extracurricular life of the College.

BENNETT SCHOLARSHIP. A fund established by Emma M. Bennett Elsing in memory of James L. Bennett of the class of 1871 provides a prize scholarship to a senior who has completed his junior year with distinction.

Junior Prize Scholarships

OREN ROOT PRIZE SCHOLARSHIPS. Two scholarships are awarded to the two juniors who have the best records in mathematics during the freshman and sophomore years and who continue that subject through the junior year.

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN LATIN. A scholarship founded by E. Root Fitch of the class of 1886, is awarded annually to a student who, at the end of one or two years of Latin, shall have maintained the best record in that subject. To be eligible for the award, the appointee must elect Latin in the following year.

Sophomore Prize Scholarships

FAYERWEATHER PRIZE SCHOLARSHIPS. Five scholarships are awarded to the five sophomores who, at the end of the freshman year, have made the highest average in their class. (See also Brockway Prize, next page.)

Prizes

Achievement Prizes

BABCOCK PRIZE IN PHILOSOPHY AND PEDAGOGY. A foundation established by Edward S. Babcock of the class of 1896 provides a prize for that senior who shall have excelled "in philosophy, and particularly in the science of pedagogy."

BROCKWAY PRIZE. A foundation established by A. Norton Brockway, M.D., of the class of 1857, provides a prize which is awarded to that member of the freshman class who has made the best academic record.

CLARK PRIZE ORATORICAL CONTEST. A foundation begun by Aaron Clark, A.M., and increased by Henry A. Clark, of the class of 1838, provides a prize for that senior who is adjudged to be the best speaker in the annual oratorical contest.

NELSON CLARK DALE, JR., PRIZE IN MUSIC. A foundation in memory of Captain Nelson Clark Dale, Jr., U.S.M.C.R., of the class of 1942, established by his parents, provides a prize for that student who has shown exceptional ability in music as composer, interpreter, or leader, or who has contributed most to the musical life of the College. The committee of award shall consist of members of the Department of Music and a senior to be selected by the department.

DARLING PRIZE IN AMERICAN HISTORY. A foundation established by Charles W. Darling and supplemented by a friend of the College provides a prize for the senior having the most distinguished record in at least two courses in American history offered to his class.

GELAS MEMORIAL PRIZE. A foundation established in 1955 by a group of alumni to honor the memory of Jean-Marius Gélas, fencing coach and Professor of Physical Education from 1921 to 1946, provides an award to the senior who has shown the greatest development in strength of character, leadership, and athletic ability during his college days.

FRANCIS W. GILBERT PRIZE. A gift presented by the class of 1953 in memory of Francis Gilbert, fellow in history at Hamilton College from 1946 to 1953, provides a cash award to be presented at a college convocation to that sophomore who, in the opinion of the Dean of the College, has shown the greatest scholastic improvement in the second semester of his freshman year.

EDGAR BALDWIN GRAVES PRIZE IN HISTORY. A foundation established by his former student, David M. Ellis, provides a prize for the senior who excels in the study of history.

HAWLEY PRIZES IN GREEK AND LATIN. A foundation established by Martin Hawley, of the class of 1851, provides two book prizes, equal in value, one for excellence in Greek and one for excellence in Latin. The awards are made to the students who have the best records in Greek 21-22 and Latin 21-22, respectively.

HOLBROOK PRIZE IN BIOLOGY. A foundation established by David A. Holbrook, of the class of 1844, provides a prize for the senior having the best record in six semester courses in biology.

WALLACE BRADLEY JOHNSON PRIZE. A foundation established by alumni of the College, in honor of Wallace B. Johnson of the class of 1915, provides a prize for that student who writes the best one-act play produced at the College.

KNEELAND PRIZE. A foundation established by the Rev. Martin Dwelle Kneeland, D.D., of the class of 1869, provides a prize for the student who has the best record when his grades in two semester courses on the Bible and in an essay competition on an assigned biblical subject are combined.

MC KINNEY PRIZE DEBATE. A foundation established by Charles McKinney provides two prizes for seniors excelling in extemporaneous debate.

MC KINNEY PRIZE SPEAKING CONTEST. A foundation established by Charles McKinney provides book prizes for the two men in each of the three lower classes who excel in speech.

JAMES SOPER MERRILL PRIZE. A foundation established in memory of James Soper Merrill by his cousin, James P. Soper, Jr., of the class of 1911, provides as a prize a gold watch which is awarded at commencement to that member of the graduating class "who, in character and influence, has best typified the highest ideals of the College." The faculty shall select the recipient of this award.

THE NORTON PRIZE. Thomas Herbert Norton, Ph.D., Sc.D., of the class of 1873, has provided a foundation for the encouragement of research in chemistry. It is prescribed that the income in each year shall be given as a prize to that undergraduate or graduate student in the College who shall have demonstrated the greatest capacity for research in chemistry.

PUTNAM PRIZE IN AMERICAN HISTORY. The gift of Dr. Frederick W. Putnam of Binghamton, supplemented by a friend of the College,

provides a prize of books for the senior having the second most distinguished record in at least two courses in American history offered to his class.

RENWICK PRIZE SCHOLARSHIP IN BIOLOGY. This scholarship, founded by Edward A. Renwick, A.M., of Chicago, Illinois, is awarded to a member of the senior or junior class appointed by the faculty, for the study of biology during the summer vacation.

ROGERS PRIZE IN GEOLOGY. A foundation established by E. Albert Rogers, of the class of 1898, provides a prize for that senior who, having a major in geology, excels in the courses of his concentration program.

SOUTHWORTH PRIZE IN PHYSICS. A foundation established by Tertius D. Southworth, of the class of 1827, provides a prize for the senior who excels in physics.

SQUIRES PRIZE IN PHILOSOPHY. A foundation established by Byron B. Taggart, of the class of 1896, in honor of the late William Harder Squires, Ph.D., of the class of 1888, provides a prize to be awarded annually, with the approval of the faculty, to that senior who shall have the highest grade when the marks for six semester courses in philosophy and a special examination designed for the purpose are combined.

TOMPKINS PRIZES IN MATHEMATICS. A foundation established by Hamilton B. Tompkins, A.M., of the class of 1865, provides two prizes for juniors who excel in mathematics. The award is made upon the basis of an examination near the close of the junior year, involving three years of work in mathematics.

UNDERWOOD PRIZE IN CHEMISTRY. A foundation begun by George Underwood, of the class of 1838, and increased by J. Platt Underwood, of the class of 1870, provides a prize for the senior who excels in chemistry.

WINCHELL PRIZE IN GREEK. A foundation established by Walter B. Winchell, M.D., of the class of 1880, provides a prize to be awarded annually, with the approval of the faculty, to the student who, beginning Greek in college, shall have the best record in six semester courses in this language.

WINSLOW PRIZE IN GREEK. A foundation established by William Copley Winslow, D.D., of the class of 1862, provides a prize to be awarded annually to the member of the sophomore class attaining the greatest proficiency in Greek for the year.

WINSLOW PRIZE IN LATIN. A foundation established by William

Copley Winslow, D.D., of the class of 1862, provides a prize to be awarded annually to the member of the freshman class attaining the greatest proficiency in Latin for the year.

WINSLOW PRIZE IN ROMANCE LANGUAGES. A foundation established by William Copley Winslow, D.D., of the class of 1862, provides a prize to be awarded annually to the member of the junior class attaining the greatest proficiency in Romance languages during his college course.

WYLD PRIZE IN GERMAN. A foundation by Lionel D. Wyld, of the class of 1949, in memory of Mary E. and Fred H. Wyld, Sr., provides a prize to a junior or senior for excellence in German as evidenced by course work and an essay.

Essay Prizes

DEAN ALFANGE ESSAY PRIZE. A foundation of five thousand dollars by Dean Alfange, of the class of 1922, provides a first and a second prize for the students writing the best essays on a feature or an issue of American constitutional government.

COBB ESSAY PRIZE. A foundation of five hundred dollars by Willard A. Cobb, of the class of 1864, provides a prize for the student submitting the best essay on journalism.

CUNNINGHAM ESSAY PRIZE. A foundation of five hundred dollars by John Howard Cunningham, of the class of 1866, provides a prize for the senior submitting the best essay on some phase of the life of Abraham Lincoln.

HEAD ESSAY PRIZE. A foundation of one thousand dollars by Franklin H. Head, LL.D., of the class of 1856, provides a prize for the best senior essay upon a theme relating to Alexander Hamilton.

HUTTON ESSAY PRIZE. A foundation of five hundred dollars by the Rev. William Hutton D.D., of the class of 1864, provides a prize for the sophomore submitting the best essay on an assigned subject in the history, translations, or literature of the Bible.

KELLOGG ESSAY PRIZE. A foundation of seven hundred dollars by Charles C. Kellogg, of the class of 1849, provides book prizes for a junior, sophomore, and freshman who excel in English essays.

KIRKLAND ESSAY PRIZE. A foundation of five hundred dollars by Mrs. A. R. Kirkland provides a prize for the senior writing the best essay upon a theme in Biblical science.

PRUYN ESSAY PRIZE. A foundation of five hundred dollars by former Chancellor John Van Schaick Lansing Pruyn of the University of the State of New York, given on August 5, 1863, has provided for the award annually of the so-called Pruyn Medal. Under a revision of his terms, as approved by his heirs on October 26, 1933, a money prize is offered for the senior or junior writing the best essay on "The Political Duties of Educated Young Men."

SOPER ESSAY PRIZE. A foundation of fifteen hundred dollars by Arthur W. Soper provides a prize for the best essay on a topic in economics assigned by the faculty. The competition is open to all seniors who are taking a second or third year-course in economics.

APPENDIX
COLLEGE RECORDS
1968-1969

Trustees, Faculty, Administration
Alumni Organizations
Degrees, Honors, Awards

Board of Trustees

OFFICERS

COLEMAN BURKE ---------- *Chairman*
HOWARD M. BINGHAM ---------- *Vice Chairman*
HUGH R. JONES ---------- *Clerk*
JAMES A. HENDERSON ---------- *Treasurer*

EMERITUS TRUSTEES*

DANIEL BURKE, LL.D., New York (1913)

JOHN L. STRICKLAND, Ph.B., Utica (1923)

GEORGE L. ABBOTT, Ph.B., Palmyra (1932)

GEORGE F. GENTES, B.S., Old Lyme, Conn. (1937)

CLANCY D. CONNELL, LL.D., Westfield, N. J. (1952)
(Alumnus Trustee, 1944-51)

CHARLES F. HEMENWAY, A.B., Chicago, Ill. (1955)
(Alumnus Trustee, 1947-53)

CHESTER R. DEWEY, LL.B., Utica (1951)

WILLARD B. EDDY, M.S., Rochester (1954)
(Alumnus Trustee, 1946-53)

WILLIAM M. BRISTOL, Ph.B., New York (1959)
(Alumnus Trustee, 1938-42, 1943-50)

LOUIS N. BROCKWAY, A.B., Greenwich, Conn. (1958)
(Alumnus Trustee, 1951-57)

WILLIS V. DAUGHERTY, LL.D., Clinton (1962)

EDGAR W. COUPER, LL.D., Binghamton (1937)

WILLIAM C. BOLENIUS, A.B., New York (1949)

W. NIVER WYNKOOP, A.B., Syracuse (1964)

* Year in paranthesis is year of original election as Charter Trustee.

CHARTER TRUSTEES

	FIRST ELECTED	TERM EXPIRES
COLEMAN BURKE, LL.B., New York	1956	1974
(Alumnus Trustee, 1948-54)		
GRANT KEEHN, M.B.A., New York	1948	1970
HOWARD M. BINGHAM, B.S., Asheville, N. C.	1952	1970
FRED L. PALMER, A.B., Summit, N. J.	1961	1970
(Alumnus Trustee, 1952-58)		
JEREMY C. JENKS, M.B.A., New York	1963	1970
(Alumnus Trustee, 1959-63)		
HENRY C. ESTABROOK, LL.B., Fulton	1959	1971
ROBERT A. KERR, A.B., Dayton, Ohio	1960	1970
WALTER BEINECKE JR., LL.D., New York	1960	1973
WILLIAM M. BRISTOL III, A.B., Summit, N. J.	1965	1973
NED DOYLE, LL.B., New York	1966	1973
ROBERT E. PEACH, A.B., Clinton	1967	1974
(Alumnus Trustee, 1961-67)		
JOHN W. CHANDLER, Ph.D., Clinton	1967	
RALPH E. HANSMANN, M.B.A., Ridgewood, N. J.	1969	1971
KEITH S. WELLIN, M.B.A., Greenwich, Conn.	1969	1971
HENRY T. MAIJGREN, M.B.A., Rochester	1969	1972
(Alumnus Trustee, 1963-65)		

ALUMNI TRUSTEES

SOL M. LINOWITZ, LL.B., Washington, D. C.	1964	1970
JOHN H. NIEMEYER, A.B., New York	1964	1970
JAMES A. HENDERSON JR., A.B., New York	1965	1971
HARRY D. YATES, B.S., Albany	1965	1971
EDWARD GELSTHORPE, B.S., Fullerton, Calif.	1966	1972
ROBERT S. SCHEU, Buffalo	1966	1972
ARTHUR D. HENGERER, M.D., Albany	1967	1973
HUGH R. JONES, LL.B., Utica	1967	1973
THE REV. FRANKLIN D. FRY, B.D., York, Pa.	1968	1974
THOMAS B. KELLEY, B.S., Bronxville	1968	1974
DAVID A. FRASER, LL.B., Syracuse	1969	1975
JOHN F. RUSSELL, A.B., Binghamton	1969	1975

COMMITTEES OF THE BOARD

(Messrs. Burke and Chandler are *ex officio* members of all Committees)

EXECUTIVE — Burke (Chairman), Beinecke, Bingham, W. M. Bristol, III, Chandler, Gelsthorpe, Henderson, Jenks, Keehn, Kelley, Kerr, Palmer, Peach

COMMITTEE ON INSTRUCTION — Bingham, Couper, Fry, Hansmann, Linowitz, Maijgren, Niemeyer, Palmer, Eddy

COMMITTEE ON BUILDINGS, GROUNDS AND EQUIPMENT — Peach, Beinecke, W. M. Bristol, III, Estabrook, Fraser, Hengerer, Yates, W. M. Bristol, Daugherty, Dewey

COMMITTEE ON NOMINATIONS ---------- Jenks, Hansmann, Jones, Keehn, Peach, Brockway, Connell

COMMITTEE ON BUDGET AND FINANCE -------- Henderson, Hansmann, Jenks, Keehn, Kelley, Kerr, Maijgren, Wellin, Wynkoop, Bolenius, Hemenway

COMMITTEE ON DEVELOPMENT OF RESOURCES -------- Kelley, Doyle, Jenks, Keehn, Kerr, Maijgren, Peach, Scheu, Wellin, Yates, Bolenius W. M. Bristol, Brockway, Connell, Hemenway

COMMITTEE ON PLANNING ---------- W. M. Bristol, III, Beinecke, Bingham, Gelsthorpe, Linowitz, Scheu, Bolenius, Couper *Faculty:* Butler, Kinnel, Lee, Ring

COMMITTEE ON STUDENT AFFAIRS ---------- Gelsthorpe, Fry, Hengerer, Jones, Niemeyer, Russell, Scheu, Wynkoop

COMMITTEE ON HONORARY DEGREES ------ Palmer, Doyle, Keehn, Linowitz, Brockway. *Staff:* Chandler, Carter. *Faculty:* D. Ellis, Lindley, Richardson

The Faculty*

JOHN WESLEY CHANDLER ---------- President
A.B., Wake Forest College; B.D. and Ph.D., Duke University; LL.D., Colgate University and Hamilton College; L.H.D., Wake Forest College

PAUL DOUGLAS CARTER ---------- Vice President and Provost
A.B., Hamilton College; A.B. and A.M., University of Oxford

WINTON TOLLES ---------- Dean of the College
A.B. and A.M., Hamilton College; Ph.D., Columbia University; Litt.D., Delaware Valley College

* * *

EMERITUS PROFESSORS

EARL WENDELL COUNT ---------- Emeritus Professor of Anthropology
A.B., Williams College; B.D., Garrett Biblical Institute; Ph.D., University of California

JOHN SAKE GAMBS ---------- Emeritus Professor of Economics
A.B. and A.M., George Washington University; Ph.D., Columbia University

EDGAR BALDWIN GRAVES ---------- Emeritus Professor of History
A.B., Haverford College; A.M. and Ph.D., Harvard University; LL.D., Haverford College

WALTER NORTON HESS ---------- Emeritus Professor of Biology
A.B., Oberlin College; A.M. and Ph.D., Cornell University

ASA EMANUEL MCKINNEY ---------- Emeritus Professor of Chemistry
A.B. and A.M., Indiana University; Ph.D., Cornell University

PHILIP VIRGILIUS ROGERS ---------- Emeritus Professor of Biology
A.B. and A.M., Hamilton College; Ph.D., Yale University

ROBERT BARNES RUDD ---------- Emeritus Professor of English
A.B. and A.M., Hamilton College; A.B., University of Oxford

* * *

PROFESSORS

JOHN ALFRED BARLOW ---------- Professor of Psychology
A.B., Oberlin College; Ph.D., Duke University

* Arranged alphabetically.

EDWIN BLOIS BARRETT* ---------- Professor of English
A.B., Macalester College; A.M., University of Minnesota; Ph.D., Columbia University

SIDNEY BACHLY BENNETT ---------- Secretary of Admission
A.B., Hamilton College

RUSSELL THORN BLACKWOOD, III ---------- Professor of Philosophy
A.B., Dartmouth College; A.M., Colgate University; Ph.D., Columbia University

ROBERT MARCELLUS BROWNING ---------- Professor of German
A.B., William Jewell College; A.M. and Ph.D., Princeton University

GEORGE HARVEY CAMERON ------ Margaret Bundy Scott Professor of Physics
B.Sc., University of Saskatchewan; Ph.D., California Institute of Technology

DONALD JOHN DENNEY ---------- Professor of Chemistry
B.Sc., University of Pennsylvania; Ph.D., Brown University

DAVID MALDWYN ELLIS -------- P.V. Rogers Professor of American History
A.B., Hamilton College; A.M. and Ph.D., Cornell University

JOHN FRANCIS ELLIS ---------- Professor of Biology
A.B. and A.M., Amherst College; Ph.D., University of Edinburgh

GEORGE H. FREDERICKSON ---------- Visiting Professor of Government
B.S., Brigham Young University; M.P.A., University of California; Ph.D., University of Southern California

BREWSTER HUNTINGTON GERE ---- Samuel F. Pratt Professor of Mathematics
A.B., Yale University; A.M., Syracuse University; Ph.D., Massachusetts Institute of Technology

NICOLAS JOHN GEROLD ---------- Stone Professor of Biology
A.B. and M.S., Brown University; Ph.D., Cornell University

CHARLES AUGUSTUS GODCHARLES ---------- Professor of Psychology
A.B., Bucknell University; A.M. and Ph.D., Duke University

FRANKLIN GRANT HAMLIN ---------- Professor of French
A.B., Bowdoin College; A.M. and D.M.L., Middlebury College; Diplôme de l'Ecole Supérieure des Professors de Français à l'Etranger, Sorbonne

DAVID HAWLEY ---------- Professor of Geology
B.S., University of Vermont; M.S., Cornell University; Ph.D., Columbia University

JAMES FRANKLIN HUNT ---------- Professor of Education
B.S., University of Pennsylvania; M.S., Massachusetts State College; Ph.D., Yale University

THOMAS MCNAUGHTON JOHNSTON -------- Marjorie and Robert W. McEwen Professor of English
B.S., Washington and Jefferson College; A.M., Tulane University of Louisiana; Ph.D., Duke University

* Absent on leave, first semester, 1969-70.

OTTO KARL LIEDKE ---------- Munson Professor of the German Language and Literature
Berlin Oberrealschule; A.M. and Ph.D., Cornell University

DWIGHT NEWTON LINDLEY ---------- Professor of English
A.B., Hamilton College; A.M. and Ph.D., Columbia University

JOHN ROBERT MATTINGLY ---------- Benjamin-Bates Professor of Latin
A.B., University of Chicago; Ph.D., Yale University

MARCEL IAN MORAUD ---------- Burgess Professor of Romance Languages
Baccalauréat ès Lettres, Limoges; A.M., University of Texas; Licence ès Lettres and Diplôme D'Etudes Supérieures, Doctorat d'Université de Paris

GEORGE LYMAN NESBITT ---------- Hamilton B. Tompkins Professor of English Literature
A.B., Hamilton College; A.M. and Ph.D., Columbia University

C. STANLEY OGILVY ---------- Professor of Mathematics
A.B., Williams College; A.M., Columbia University; Ph.D., Syracuse University

PAUL PARKER ---------- Professor of Art
A.B., University of Illinois; A.M., University of Chicago

JAMES PENNEY ---------- Professor of Art
B.F.A., University of Kansas

WALTER PILKINGTON ---------- Librarian
A.B., Brown University; A.M., University of Chicago

DONALD BRANDRETH POTTER ---------- Professor of Geology
A.B., Williams College; A.M., Brown University; Ph.D., California Institute of Technology

CHANNING BULFINCH RICHARDSON ---------- Henry P. Bristol Professor of International Affairs
A.B., Amherst College; Ph.D., Columbia University

JAMES WALTER RING ---------- Professor of Physics
A.B., Hamilton College; Ph.D., University of Rochester

LANDON GALE ROCKWELL ---- James S. Sherman Professor of Political Science
A.B., Dartmouth College; A.M. and Ph.D., Princeton University

CHARLES LAFAYETTE TODD* ------ Upson Professor of Rhetoric and Oratory
B.S., Hamilton College; A.M., Columbia University

MOX ARTHUR WEBER ---------- Professor of Physical Education
A.B., Oberlin College; A.M., Columbia University

SIDNEY WERTIMER, JR. ---------- Leavenworth Professor of Economics
B.S., University of Pennsylvania; A.M., University of Buffalo; Ph.D., London School of Economics

LAWRENCE KARN YOURTEE ---------- Childs Professor of Chemistry
B.S., Washington College; M.S., Georgia Institute of Technology; Ph.D., University of Texas

* Absent on leave, first semester, 1969-70.

ASSOCIATE PROFESSORS

JAMES ALVIN ADKINS* ---------- Associate Professor of Mathematics
B.S., United States Naval Academy; M.S., Purdue University

CHARLES CALVIN ADLER, JR.† ---------- Associate Professor of History
A.B., University of Rochester; A.M. and Ph.D., Harvard University

GREGORY JOSEPH BATT ---------- Associate Professor of Physicial Education
A.B., Colgate University

STEPHEN BONTA ---------- Associate Professor of Music
A.B., Yale University; A.M., Columbia and Harvard Universities; Ph.D., Harvard University

AUSTIN BRIGGS, JR.† ---------- Associate Professor of English
A.B., Harvard University; A.M. and Ph.D., Columbia University

JOHN MARTIN CAROVANO ---------- Associate Professor of Economics
A.B., Pomona College; A.M. and Ph.D., University of California

ROBERT ROSE CARSON ---------- Associate Professor of Speech
B.S., Hamilton College; A.M., Hobart College

A. DUNCAN CHIQUOINE ---------- Associate Professor of Biology
A.B., Swarthmore College; Ph.D., Cornell University

ROUBEN C. CHOLAKIAN‡ ---------- Associate Professor of Romance Languages
A.B., Bates College; A.M. and Ph.D., Columbia University

THOMAS EDWARD COLBY, III ---------- Associate Professor of German
A.B., Hamilton College; A.M. and Ph.D., Princeton University

LELAND EARL CRATTY, JR.* ---------- Associate Professor of Chemistry
B.S., Beloit College; Ph.D., Brown University

JAMES STEELE ALLISON CUNNINGHAM ---------- Associate Professor of Classics
B.D. and A.M., University of Glasgow; B.Litt., University of Oxford; A.M. and Ph.D., Princeton University

JAMES BOLTON DAVIS ---------- Associate Professor of French
A.B., Williams College; A.M., Middlebury College; Ph.D., University of Pennsylvania

HADLEY SHELDON DEPUY ---------- Associate Dean of the College
A.B., St. Lawrence University; A.M., Colgate University; Ed.D., Cornell University

DONALD MAXSTADT JONES ---------- Associate Professor of Physical Education
B.S. and A.M., Rutgers University

EDWIN BORDEN LEE, JR. ---------- Associate Professor of History
A.B., Duke University; A.M. and Ph.D., Columbia University

EUGENE MILTON LONG ---------- Associate Professor of Physical Education
B.S. and M.S., State University of New York College of Cortland

* Absent on leave, 1969-70.
† Absent on leave, second semester, 1969-70.
‡ Director, Junior Year in France, 1969-70.

LAWRENCE ROBERT MCMANUS ---------- Associate Professor of Biology
B.S., M.Ed. and Ph.D., Cornell University

WARREN EARL WRIGHT ---------- Associate Professor of Speech
A.B. and A.M., Emerson College; Ph.D., University of Illinois

ASSISTANT PROFESSORS

JOHN TIMOTHY ANDERSON ---------- Assistant Professor of Mathematics
A.B., Hamilton College; Ph.D., Duke University

NORMAN E. BOWIE ---------- Assistant Professor of Philosophy
A.B., Bates College; Ph.D., University of Rochester

STEWART E. BUTLER ---------- Assistant Professor of Economics
A.B., University of Massachusetts; A.M., University of Connecticut

MELVIN BAKER ENDY, JR. ---------- Assistant Professor of Religion
A.B., Princeton University; B.D., Yale University Divinity School; A.M. and Ph.D., Yale University

EDWIN B. ERICKSON ---------- Assistant Professor of Biology
B.S., Albright College; Ph.D., Bryn Mawr College

JAMES LEE FANKHAUSER ---------- Assistant Professor of Music
B. Mus., Oberlin College; A.M., University of California (Berkeley)

GEORGE ALBERT GESCHEIDER ---------- Assistant Professor of Psychology
B.S., Denison University; M.S., Tulane University of Louisiana; Ph.D., University of Virginia

GRANT JONES ---------- Assistant Professor of Anthropology
A.B., Florida State University; A.M., Brandeis University; Ph.D., Brandeis University

ROBIN KINNEL ---------- Assistant Professor of Chemistry
A.B., Harvard University; Ph.D., Massachusetts Institute of Technology

EUGENE LEWIS* ---------- Assistant Professor of Government
A.B., Temple University; A.M., Indiana University; Ph.D., Syracuse University

FREDERIC WELLINGTON MACDONALD, JR. ---------- Assistant Professor of Physical Education
B.S., Springfield College

IVAN MARKI ---------- Assistant Professor of English
A.B., University of Alberta; A.M., Columbia University

KENNETH CHARLES MEALY ---------- Assistant Professor of French
A.B., Hamilton College; Diplôme du Centre Universitaire des Hautes Etudes Européennes (Strasbourg); Doctorat du Troisième Cycle (Strasbourg)

* Director, Semester in Washington, first semester, 1969-70.

DAVID RICHARD MILLAR ---------- Assistant Professor of History
A.B. and A.M., George Washington University; Ph.D., Cornell University

PETER J. MILLET ---------- Assistant Professor of Physics
B.S., Rensselaer Polytechnic Institute; M.S. and Ph.D., Syracuse University

MATTISON MINES ---------- Assistant Professor of Anthropology
A.B. and A.M., University of Washington

PHILIP M. PEARLE ---------- Assistant Professor of Physics
B.S., M.S., and Ph.D., Massachusetts Institute of Technology

ROBERT LEONARD SIMON ---------- Assistant Professor of Philosophy
A.B., Lafayette College; Ph.D., University of Pennsylvania

HERBERT GEORGE SUTTER ---------- Visiting Assistant Professor of Chemistry
A.B., Hamilton College; Ph.D., Brown University

JOSE B. TATO ---------- Assistant Professor of Spanish
B.A.&S., Camaguey Institute (Cuba); A.M., Rutgers, the State University; LL.D., University of Havana (Cuba)

JAMES F. TRAER ---------- Assistant Professor of History
A.B., College of Wooster; A.M. and LL.B., University of Michigan

JOHN CHARLES ULREICH, JR. ---------- Assistant Professor of English
A.B., Hamilton College; A.M., Harvard University

MANFRED E. VON SCHILLER ---------- Assistant Professor of Physical Education
B.S., State University of New York College of Brockport; A.M., St. Lawrence University

FREDERICK R. WAGNER ---------- Assistant Professor of English
A.B. and A.M., Duke University

JAY GOMER WILLIAMS ---------- Assistant Professor of Religion
A.B., Hamilton College; B.D., Union Theological Seminary; Ph.D., Columbia University

DAVID N. YOUNG ---------- Assistant Professor of Russian
A.B., Princeton University; A.M., Columbia University

INSTRUCTORS

ROBERT JUDSON BALLENTINE ---------- Instructor in Mathematics
A.B., Colgate University; M.S., Rensselaer Polytechnic Institute

CAROL E. BERKE ---------- Instructor in Government
A.B., Hofstra University

FRANK CHARLES LEANA ---------- Instructor in English
A.B., Hamilton College; A.M., Indiana University

THOMAS ASHBY MCCOWN ---------- Instructor in Economics
A.B., Northwestern University

JEREMY TYLER MEDINA ---------- Instructor in Spanish
A.B., Princeton University; A.M., Middlebury College

KENNETH STEWART PATRICK ---------- Instructor in Physical Education
B.S., Ithaca College

RONALD C. WENDLING ---------- Instructor in English
A.B. and A.M., Fordham University

VISITING INSTRUCTORS

ELIZABETH MUIR RING ---------- Visiting Instructor in Philosophy
A.B. and A.M., University of Manitoba

PART-TIME INSTRUCTORS

JOHN FLAVER ---------- Part-time Instructor in Music

DAVID WALKER ---------- Part-time Instructor in Music
B.Mus., Illinois Wesleyan University; M. Sac. Mus., Union Theological Seminary

STANDING COMMITTEES OF THE FACULTY
1969-70

(Mr. Chandler is an *ex officio* member of all Committees.)

ACADEMIC COUNCIL ---------- Chandler (Chairman), Hamlin, Kinnel, Lee, Richardson, Tolles

ACADEMIC POLICY ---------- Barrett, Bonta, Carovano, Chiquoine, Colby, J. Ellis, Lindley, Tolles, Wertimer, Yourtee

ADMISSION AND SCHOLARSHIP ---------- Bennett, Cameron, Colby, DePuy, Lee, Millar, Tolles, Wertimer

APPOINTMENTS ---------- Moraud, Denney, Nesbitt

BOARD OF REVIEW ---------- Tolles, DePuy, Gerold, Hunt, Liedke, Marki

FACULTY HOUSING ---------- Blackwood, Endy, Long, McManus, Wertimer

LECTURES, MUSIC AND EXHIBITIONS ----- Todd, Bonta, Briggs (first semester), Butler, Gescheider, G. Jones, Lewis (second semester), Loomis (staff assistant)

JOINT LIBRARY ---------- Carter, G. Jones, Jaffe (Kirkland), Pilkington, Schneider (Kirkland), Yourtee

READING ---------- Carson, Johnston, Potter

RELIGIOUS PROGRAM ---------- Platz, D. Ellis, Fankhauser, Johnston, Lacey (Kirkland), Parker, Wright

STUDENT ACTIVITIES ---------- DePuy, Davis, Fankhauser, McManus, Millar

Administrative Officers and Staff

Office of the President

JOHN W. CHANDLER, Ph.D. ---------- President
GILBERT J. GROUT, A.B. ---------- Assistant to the President

Office of the Vice President and Provost

PAUL D. CARTER, M.A. ---------- Vice President and Provost
RONALD F. MACDONALD, A.B. ---------- Controller
JOHN H. KREINHEDER, B.S. ---------- Director of Planning
JOHN J. LETZELTER ---------- Director of Physical Plant
ALAN H. O'BRIEN, B.S. ---------- Chief Accountant
RONALD N. LOOMIS, A.M. ---------- Director of the William M. Bristol Campus Center and Director of Placement
HENDRIK W. VAN LOON, B.S. ---------- College Forester
LETTIE D. TOURVILLE ---------- Supervisor of the Edward W. Root Art Center
MRS. ETHEL T. CAMERON ---------- Manager of the College Store

Office of the Dean

WINTON TOLLES, Ph.D. ---------- Dean
HADLEY S. DEPUY, Ed.D. ---------- Associate Dean
GERALD A. PLATZ, B.D. ---------- Acting Dean of the Chapel
MRS. LEONA O. MOORE, A.B. ---------- Recorder

Office of the Vice President, Resources and Development

ALBERT F. WALLACE, M.A. ---------- Vice President
GEORGE NEWMAN, M.S. ---------- Director of Public Relations
GILBERT F. ADAMS, A.M. ---------- Director of Alumni Affairs
JANICE C. BUYS, A.B. ---------- Assistant to the Vice President and Director of Special Projects
ROBERT B. BROOKS, A.B. ---------- Assistant to the Vice President and Director of Long-Range Programs
ROBERT T. CHAFFEE, A.B. ---------- Assistant Director of Public Relations

Office of Admission

SIDNEY B. BENNETT, A.B. ---------- Secretary of Admission
CHRISTOPHER W. COVERT, A.M. ---------- Associate Secretary
EDWARD B. WILSON, A.B. ---------- Assistant Secretary

The Library

WALTER PILKINGTON, A.M. ---------- Librarian
MRS. VITTORIA I. MONDOLFO, Dott. Chim. ---------- Head of Technical Processes
FREDERICK A. LERNER, M.L.S. ---------- Reference Librarian
MRS. EUGENIA W. KING ---------- Interlibrary Loan Librarian
MRS. HELENE M. BROWNING ---------- Circulation Librarian
MRS. L. EVELYN CANFIELD ---------- Science Librarian
ABIGAIL OTIS ---------- Order Librarian
MRS. RUTH JOHNSTON ---------- Serials Librarian
MRS. MARIAN E. BALTZ ---------- Assistant Cataloguer

Thomas Brown Rudd Health Center

LEON M. ROE, M.D. ---------- Medical Director
DON T. MUILENBERG, Ph.D. ---------- Clinical Psychologist
BETTY ANN LEWIS, R.N. ---------- Supervising Nurse
MRS. JEANNE CULKIN, R.N. ---------- Nurse
MRS. JACQUELYNN FOLEY, R.N. ---------- Nurse
MRS. ELLEN CONWAY, R.N. ---------- Nurse
MRS. RITA DEWITT, R.N. ---------- Nurse

Alumni Organizations, 1969-70

SOCIETY OF ALUMNI

President: William O. Barnes, Jr. '44, 1180 Raymond Blvd., Newark, N. J. 07100

Secretary: Gilbert F. Adams '45, Hamilton College, Clinton, N. Y. 13323

ALUMNI COUNCIL

Chairman: Robertson Mackay '50, 5 Sulgrave Rd., West Hartford, Conn. 06117

Vice-Chairman: John W. Wagner '44, 5 Winthrop Rd., Chappaqua, N. Y. 10514

LOCAL ALUMNI ASSOCIATIONS

Officers and Alumni Council Representatives

These alumni are excellent sources of information about Hamilton College. Readers of this Catalogue may wish to consult the officers of the nearest Association, or any other alumnus, for such information.

EAST

ADIRONDACK

Pres.: Thomas A. Fagan '56, 56 Kensington Rd., Glens Falls, N. Y. 12801

Sec.: James S. Fursman '18, 4 Cherry St., Hudson Falls, N. Y. 12839

Rep.: Rev. Arthur R. Melius '58, 54 King, Ave., Hudson Falls, N. Y. 12839

CONNECTICUT VALLEY

Pres.: Henry B. Sanson '40, 2600 Bevlin Turnpike, Newington, Conn. 06111

Sec.: Robert M. Woods '39, 36 Woodrow St., West Hartford, Conn. 06107

Rep.: Thomas R. Crane '31, 70 Le May St., West Hartford, Conn. 06107

EASTERN NEW ENGLAND

Pres.: Harlan D. Calkins '54, King George Drive, Boxford, Mass. 01921

Sec.: Dr. Peter G. Kimball '56, 20 Vassar Rd., Marblehead, Mass. 01945

Rep.: John D. Crosier '59, 23 North St., Grafton, Mass. 01519

METROPOLITAN NEW YORK

Pres.: Donald D. Kittell '59, Bedford Village, N. Y. 10506

Sec.: Allan J. Green '63, 49 E. 91st St., New York, N. Y. 10028

Reps.: Daniel R. Murdock '59, 110 Remsen St., Brooklyn, N. Y. 11201

F. Peter O'Hara '57, 108 E. 82nd St., New York, N. Y. 10028

A. Russell Thompson '25, 68 Garden St., Garden City, N. Y. 11530
S. Gilmer Towell '50, 06 Old Hollow Rd., Short Hills, N. J. 07078

NORTHEASTERN NEW YORK

Pres.: Lt. Col. Cranston E. Covell '35, 642 Western Ave., Albany, N. Y. 12203
Sec.: Philip A. Erlich '62, 1 Hazel Terrace, Rensselaer, N. Y. 12144
Rep.: Frederick C. Burdick '53, 69 Mosher Rd., Delmar, N. Y. 10254

NORTHERN NEW JERSEY

Pres.: Gordon D. Sterling '57, Hamilton Dr. South, North Caldwell, N. J. 07000
Sec.: Peter F. Eld '57, 14 Stevens St., Bernardsville, N. J. 07924
Rep.: George L. Boveroux, Jr. '56, 119 Gordonhurst Ave., Upper Montclair, N. J. 07043

PHILADELPHIA

Pres.: David T. Sykes '59, 1733 Addison St., Philadelphia, Pa. 19146
Sec.: R. Noel Turner '61, 450 Hillendale Rd., Media, Pa. 19063
Rep.: Theodore H. Davis '55, 921 Ridley Creek Dr., Media, Pa. 19063

ROCHESTER

Pres.: Dr. Warren D. Smith '53, 9 Broken Hill Rd., Pittsford, N. Y. 14534
Sec.: George H. Elferink '61, 210 Elmcroft Rd., Rochester, N. Y. 14609
Rep.: John F. Mahon '53, 700 Midtown Tower, Rochester, N. Y. 14604

SOUTH CENTRAL NEW YORK

Pres.: Paul N. Tavelli '63, 120 Pine Tree Road, Ithaca, N. Y. 14850
Sec.:
Rep.: Dr. R. Richard Murray '52, 528 Warren Rd., Ithaca, N. Y. 14850

SOUTHERN NEW YORK

Pres.: Bruno Colapietro '57, 708 Harpur Dr., Endicott, N. Y. 13760
Sec.: Samuel K. Levene '59, 601 Murray Hill Rd., Binghamton, N. Y. 13903
Rep.: Alan P. Savory '55, 600 Midvale Rd., Binghamton, N. Y. 13903

SYRACUSE

Pres.: John M. Freyer '57, 100 State Tower Bldg., Syracuse, N. Y. 13202
Sec.: Robert H. Wells '60, 308 McLennan Dr., Fayetteville, N. Y. 13066
Rep.: John M. Hastings, Jr. '44, Woodchuck Hill Rd., Fayetteville, N. Y. 13066

UTICA AND VICINITY

Pres.: Edwin A. Waskiewicz '40, 1612 Harrison Ave., Utica, N. Y. 13501
Sec.: William F. Tracy, Jr. '65, 1315 Schuyler St., Rome, N. Y. 13440
Rep.: David E. Harden '48, 3 Fairways Dr., McConnellsville, N. Y. 13401

WASHINGTON AND VICINITY

Pres.: William A. Clark '57, 2136 Georgia Woods Place, Wheaton, Md. 20902
Sec.: Eugene B. Granof '56, 6015 Benalder Dr., Bethesda, Md. 20016
Rep.: Arnold M. Lerman '50, 822 Leigh Mill Rd., Great Falls, Va. 22006

WATERTOWN

Pres.: Richard C. Cummings '52, 92 Dayan St., Lowville, N. Y.
Sec.: To be elected
Rep.: To be elected

WESTERN NEW YORK

Pres.: Edward J. Flynn '45, 74½ Lincoln Parkway, Buffalo, N. Y. 14222
Sec.: Walter S. Crosier '55, 14 Lehn Springs Dr., Williamsville, N. Y. 14221
Rep.: Albert J. Wright '49, 252 Burroughs Dr., Buffalo, N. Y. 22006

WESTERN PENNSYLVANIA

Pres.: Silas Keehn '32, 219 Richland Lane, Pittsburgh, Pa. 15230
Sec.: John K. Backus '46, 9441 Katherine Dr., Allison Park, Pa. 15101
Rep.: John K. Backus '46

MID-WEST

CHICAGO

Pres.: W. Jackson Woodin '65, 147 Williams Drive, Palatine, Ill. 60067
Sec.: David L. Crabb '60, Univ. of Chicago, 5801 S. Ellis Ave., Chicago, Ill. 60637

Rep.: Edward M. Bakwin '50, 900 Lake Shore Dr., Chicago, Ill. 60611

LOWER MICHIGAN

Pres.: Joseph F. Maycock, Jr. '52, 2500 Detroit Bk. & Trust Bldg., Detroit, Mich. 4822

Sec.: To be elected

Rep.: Peter P. A. Burnett '45, 5645 Forman Drive, Birmingham, Mich. 48010

NORTHERN OHIO

Pres.: Dr. Simon Ohanessian '51, 12740 Heath Rd., Chesterland, Ohio 44026

Sec.: Herbert J. Farr '54, 2845 Drummond Rd., Shaker Hts., Ohio 44120

Rep.: R. William Leavenworth, Jr. '42, 26435 North Woodland Rd., Beachwood, Cleveland, Ohio 44124

WEST

ARIZONA

Pres.: Karl C. Gregg '53, Dept. Romance Languages, Univ. of Arizona, Tucson, Ariz. 85721

Sec.: Reuben P. Fahringer '60, 8747 E. Dexter Dr., Tucson, Ariz. 85715

Rep.: Frederic S. Marquardt '27, c/o Arizona Republic, 120 E. Van Buren St., Phoenix, Ariz. 85004

NORTHERN CALIFORNIA

Pres.: Paul E. Peterzell '58, 651 Hilary Dr., Beveder-Tiburon, Calif. 94920

Sec.: Franklin T. Birdsall, Jr. '52, Box 575, Kentfield, Calif. 94904

Rep.: William H. Freeman, Jr. '26, 2240 Hyde St., San Francisco, Calif. 94109

PACIFIC NORTHWEST

Pres.: Alfred E. Loveland '44, 15225 N.E. Third Place, Bellevue, Wash.

Sec.: Samuel L. Lake '39, 8021 S.E. 71st, Mercer Island, Wash. 98040

Rep.: T. Leslie Elliott '38, 3718 N. 34th St., Tacoma, Wash. 98407

ROCKY MOUNTAIN

Pres.: Dr. Peter C. Hoch '38, 2829 East 7th Ave., Denver, Colo. 80206

Sec.: To be elected

Rep.: Rev. George F. Kempsell, Jr. '42, 6975 Dover, Arvada, Colo. 80002

SOUTHERN CALIFORNIA

Pres.: Bradley H. Roberts '50, 20283 Inland Lane, Malibu, Calif. 90265

Sec.: W. Allenby Jones '39, 5923 Hill Rd., Culver City, Calif. 90230

Rep.: Dr. Henry H. Work '33, 1041 Chantilly Rd., Los Angeles, Calif. 90024

1969
DEGREES IN COURSE
Bachelor of Arts

Ronald Aqua
Andrew Whitaker Bailey
Charles Justin Bailey
David Edward Baker
Charles Baldwin
Edwin Baranowski
Michael Baratoff
William Gilbert Barton
David Soule Bate, Jr.
William Baxter
Brian William Beach
Joseph Bernadino
Richard Sperry Bilheimer
Thomas Leonard Biracree
Philip Lawrence Bizzarri
Johannes Bjornsson
John F. Blazyk
Paul Wendell Brandow, ΦBK
John Llewellyn Brendler
Cary Grant Briggs, ΣΞ
William Langdon Brown
Michael Robert Bruce
Edward John Buckbee II
Christopher Bryon Bugbee
Douglas George Burnham
Timothy Cornish Callas
David White Campbell
John Richard Carmer
Laird Thomas Carpenter
William McClintock Carson
William Peter Casella, ΦBK
Richard Drake Chapman
William Waddell Chase
Arnold William Chesney
Robert Freiberger Chrestensen
Steven James Coffey, ΦBK
Robert Gordon Copping
Robert Lloyd Costantino
Michael McChesney Coyle
John Martinengo Curran
Karl Imants Danga
Keith William Daniel
George Craig DeForest
Philip Stephen Derfler
Bruce Harvey Dobkin
John Andrew Drimmer
Thomas Ducibella
Steven Michael Duin
Donald John Duprey
Edwin John Effinger
Alexander Ewing, Jr.
George Winfield Fairchild IV, ΦBK
Thomas Louis Fazio, ΣΞ
Dodge Temple Fielding
James Robert Franciose
Thomas Joseph Frawley
Robert Emmet Gaffney
Christopher Pierre Garand
Arthur Frederick Goossen
John David Grad, ΦBK
Roger Tatum Gray
Benjamin Lewis Greenbaum
Michael Jay Greenspan
John Patrick Griffin
David Halperin
H. Ward Hamlin, Jr.
David Ray Harvey
Richard Roberts Harwood III
Robert Sydney Havely
Michael Dylan Healy
Paul Abbott Hessney
John Wesley Hester
Philip Samuel Hill III
Samuel Ray Hill II
Howard David Hodes
Michael Stone Hooper
Robert Traill Horn, Jr.
Stuart Horowitz
John Allan Hussey
Harry Marshall Hutson, Jr.
Robert Gordon Hyland
Richard Michael Hyman
Mark Robert Johnson
Steven Thomas Kenny
Jesse Dudley Baldwin Kimball, ΦBK
Jeffrey Lynn Kingsley
Stephen Albert Knapp
Donald Edward Krutz
James Harry Kuhe
Alan George Lafley
Lewis Peyton Lawson
Philip Bruce Leavenworth
Stephen Sterling Lewandowski
Raymond Anderson Linder
Edd Gilbert Lyon
Armen Joseph Malikian
Jack Henry Markowitz
Shipley Childs Mason
Robert John McConnell, ΦBK
Brooks Walton McCuen II

Philip Barton McGlave
Joseph Stryker McGuire
John Hadwen Mellencamp
Eric Archer Milligan
David Frederic Mills
Philippe Edmond Montegut
John William Moreland
Alan Moskowitz
William John Muller, ΦBK
Robert Earl Murphy, Jr.
Michael Allen Nelson
Frederick Henry Neuschel
David Charles Obersheimer
Leonard Robert Olavessen
John Everett Palmer III
Jeffrey Roger Parsons
John David Phillips, Jr.
David William Pollard
William Lawrence Powers, ΦBK
Charles Allen Prescott, ΦBK
Wayne Michael Pressel
Ronald Edward Priest
Alan Abraham Rabin
James Edward Randolph
Stephen Carl Redd
David John Roberts III
Karl-Heinz Jurgen Rogge
Lawrence Steven Rosenberg
Jack Neil Rothman
Philip Michael Sagan, ΦBK, ΣΞ
Derace Lan Schaffer
Peter James Schild
Charles Robert Schramm III
Robert Alan Schultz
Lawrence Richard Schwink
Michael Donald Seitzinger
Stephen Barry Shapiro
William Merritt Sherman, ΦBK
Klaus Erik Siebert
Anthony William Stapleton
Edmund Augustus Steimle, Jr.
Carl Alfred Stockfleth
James Donald Stork
Robert Ritchey Stroud
L. Vincent Strully, Jr.
John Patterson Suplee
Jerry Allen Swingle
Thomas Leonard Tessier
Thomas Day Thacher II
Jeffrey Douglas Thatcher
William Richard Thiele
Donald Karl Thornton
John Campbell Tippett
Donald Frantz Tomb
Robert Royal Tupper, Jr.
Michael Kenneth Upton
Peter Warner Van Alstine, ΦBK
Peter Stapleton Verrill
Roger Edward Vielbig
Frederick Dysart Volp
Paul Charlton Waibel, Jr.
Carl Hand Waldman
Thomas Barry Walker
Newell Ernest Warde
Brian Colby Warden
William Slocum Warfield
David Bernard Waters
Jeffrey Reid Watts
Barry Joseph Weber, ΣΞ
Matthew Hawley Weber
Gordon Visscher Webster, Jr.
Lawrence Paul Welch
Robert Gene Whinn
John Miller Williams III
Daniel Carl Wistran
John Davin Wladis, ΦBK
Ernest Harvey Wood III
Charles Ernest Worcester
Charles Bingham Zellmer

HONORARY DEGREES

DOCTOR OF LAWS ..... James Edward Allen, Jr., Lee Hastings Bristol, Jr., James Kenneth Donahue, Frederick Carlos Ferry, Jr.

DOCTOR OF LETTERS ..... James Laughlin

DOCTOR OF HUMANE LETTERS ..... Russell Wayne Baker, William Graham Cole, Norman Podhoretz

DOCTOR OF SCIENCE ..... Edward Curtis Taylor

SCHOLARSHIP HONORS FOR THE COURSE
Class of 1969

HONOR ---------- Aqua, Bjornsson, Brandow, Casella, Coffey, Copping, Derfler, Fairchild, Grad *(Valedictorian)*, Hyman, Kimball, McConnell *(Salutatorian)*, Muller, Powers, Prescott, Sagan, Schwink, Sherman, Van Alstine, Wladis

CREDIT ---------- Arthur, Bailey, Barton, Bate, Beach, Bernadino, Biracree, Blazyk, Buckbee, Callas, Carpenter, Danga, Daniel, Dobkin, Ducibella, Duprey, Ewing, Griffin, Harvey, Hill, Horn, Hutson, Kingsley, Knapp, Krutz, Lafley, Lewandowski, Linder, Markowitz, McCuen, McGlave, McGuire, Milligan, Moskowitz, Nelson, Neuschel, Phillips, Pressel, Priest, Rabin, Randolph, Redd, Roberts, Rosenberg, Rothman, Schramm, Schultz, Suplee, Tessier, Tupper, Upton, Verrill, Vielbig, Waibel, Waldman, Warde, Warden, Weber, Webster

DEPARTMENT HONORS

ANTHROPOLOGY ---------- Callas
ART ---------- Suplee
BIOLOGY ---------- Beach, Ducibella, Fairchild, Priest, Schultz, Verrill, Waibel
CHEMISTRY ---------- Griffin, McConnell, Sherman
ECONOMICS ---------- Copping, Harvey, Powers
ENGLISH ---------- Bate, Duprey, Kimball, Kingsley
FRENCH ---------- Buckbee, Schwink, Waldman
GEOLOGY ---------- Tessier
GERMAN ---------- Warde, Warden
GOVERNMENT ---------- Aqua, Danga
HISTORY ---------- Bailey, Casella, Coffey, Derfler, Lafley, Muller, Nelson, Randolph, Wladis
LATIN ---------- Bjornsson
MUSIC ---------- Daniel, Grad
PHILOSOPHY ---------- Prescott
PHYSICS ---------- Van Alstine
PSYCHOLOGY ---------- Barton, Briggs, Milligan, Roberts, Sagan, Weber
RELIGION ---------- Bernadino
SPANISH ---------- Brandow, McGuire

SCHOLARSHIP HONORS
For the Year 1968-69

Senior Class

HIGH HONOR ---------- Buckbee, Casella, Coffey, McConnell, McGuire, Horn, Prescott, Weber

HONOR ---------- Aqua, Bailey, Barton, Bate, Bernadino, Bjornsson, Brandow, Callas, Copping, Danga, Ducibella, Duprey, Fairchild, Gaffney, Garand, Hyman, Lafley, Lewandowski, Malikian, McCuen, Grad, Greenspan, Harvey, Hill, Milligan, Muller, Nelson, Phillips, Powers, Priest, Redd, Roberts, Rosenberg, Sagan, Schwink, Shapiro, Sherman, Tessier, Tupper, Upton, Van Alstine, Warde, Warden, Webster, Wladis

CREDIT ---------- Baker, Baratoff, Beach, Biracree, Blazyk, Brendler, Briggs, Campbell, Carpenter, Chesney, Costantino, Curran, Daniel, Derfler, Drimmer, Effinger, Franciose, Frawley, Kenney, Kimball, Kingsley, Knapp, Krutz, Linder, Lyon, Markowitz, McGlave, Griffin, Healy, Hessney, Hutson, Mills, Moskowitz, Neuschel, Obersheimer, Parsons, Pollard, Pressel, Rabin, Randolph, Reppun, Rothman, Schaffer, Schramm, Schultz, Siebert, Strully, Suplee, Tippett, Tomb, Verrill, Vielbig, Volp, Waibel, Waldman, Warfield, Weber, Whinn, Williams, Worcester

Junior Class

HIGH HONOR ---------- Johnson, Katz, Linsley, Nemecek, Soued, Townley

HONOR ---------- Anderson, Blenk, Campobello, Carmer, Casagrande, Ching, Darling, Goldberg, Hamilton, Handelman, Herman, Hjisavva, Jaffe, Luney, MacIntyre, Margolies, Mokrzycki, Munn, Nichols, Oei, Polak, Politis, Rabe, Shapiro, Valone, Wayland, Weiss

CREDIT ---------- Andrews, Ball, Beirne, Bellinger, Beman, Best, Bilzor, Bloom, Boggs, Bord, Brown, Cohen, Cohn, DeVito, Doonan, Dunn, Einhorn, Engell, Faull, C., Faull, T., Feldman, Fertig, Giannattasio, Gilbert, Glover, Grieco, Hambrick, Hastings, Herr, Herrod, Howard, Jones, Kahn, Karlinski, Kennedy, Linett, Mathias, Menconi, Omaits, Papaconstantinou, Peuler, Pisanelli, Poister, Post, Purcell, Redmond, Remis, Sarris, Seider, Shallish, Sherban, Sherman, Stangler, Tucker, Wagner, Wygant, Younkin

Sophomore Class

HIGH HONOR ---------- Braverman, D'Accurzio, Green, Jungman, Klosson, McGowan, Niederbuhl, Weiss

HONOR ---------- Apple, Atkinson, Bentley, Brown, Bryce, Cavallo, Concotta, Danna, Dennis, Hall, House, Jones, Kornberg, London, Longstreth, Newkirk, Paris, Phillips, Polanen, Rauch, Rynearson, Sciamanda, Solan, Thomas, Tobin, Ullman

CREDIT ---------- Anechiarico, Astyk, Bartle, Bauer, Benjamin, Brenner, Carlson, Carr, Chapin, Chapnick, Collins, Copeland, Coupe, Curran, Davis, Demerest, Farr, Forman, Freyberg, Gould, Gragg, Griffin, Hamlin, Hanlon, Harper, Hasskarl, Hole, Holmes, Hudson, Hymes, Jones, Kalite, Kinsky, Kreiswirth, Lattin, LeFevre, Lindner, Lund, Monopoli, Morgan, Nolan, Oyer, Pfohl, Radding, Ribeiro, Sampson, Scott, Shapiro, Soberman, Spellane, Williams, Withiam, Wu, Yordan, Zeichner

Freshman Class

HONOR ---------- Ball, Brotzman, Brown, Davenport, Flynn, MacAvery, Marcal, McKenna, Minkiewicz, Mochary, Myers, Paskoff, Patey, Sternberg, Story, Stuhr, Taylor, Thomas, Tsui, Vaughan

CREDIT ---------- Bailey, Belleman, Bernstock, Bianco, Blinkoff, Booth, Brueggemann, Capraro, Chesbro, Dabney, Daley, Dempsey, Droesch, Gottry, Grant, Hamblin, Handler, Harrington, Hartzell, Heisler, Henke, Henley, Holly, Jurinski, Kimball, Kirkpatrick, Lalanne, Levinson, Luke, Lyman, Mauriello, McMann, Nauseef, Nichols, Plath, Proios, Rader, Roden, Rosenstein, Roth, Sanoff, Scott, Sherban, Spear, Spellman, Staley, Stauber, Stone, Thomas, Tiller, Vincent, Waddock, Waters, Williams, Young

Special Students

CREDIT ---------- Aschoff, von Hoegen

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

BABCOCK PRIZE IN PHILOSOPHY AND PEDAGOGY ---------- Prescott

BENJAMIN WALWORTH ARNOLD PRIZE SCHOLARSHIPS ---------- *Senior,* Linsley; *Junior,* House; *Sophomore,* Mochary

BENNETT PRIZE SCHOLARSHIP ---------- Soued

BROCKWAY PRIZE ---------- Ball

CAPTAIN GERALD FITZGERALD DALE SENIOR SCHOLARSHIP ---------- Weiss

COBB ESSAY PRIZE ---------- Pattengill

CURRAN PRIZE SCHOLARSHIP ---------- Lund

DARLING PRIZE IN AMERICAN HISTORY ---------- Casella

DEAN ALFANGE ESSAY PRIZE ---------- *First,* Rauch; *Second,* Nelson

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN LATIN ---------- Carey, Lund

DUELL GERMAN SCHOLARSHIP ---------- Jaffe

EDGAR BALDWIN GRAVES PRIZE IN HISTORY ---------- Casella

EDWARD HUNTINGTON MEMORIAL MATHEMATICAL SCHOLARSHIP --- Margolies

FAYERWEATHER PRIZE SCHOLARSHIPS ---------- Ball, Marcal, Minkiewicz, Thomas, Vaughn

FRANK HUMPHREY RISTINE SCHOLARSHIP ---------- Cohen

GELAS MEMORIAL PRIZE ---------- Barton

HAWLEY PRIZE IN GREEK ---------- *Tied,* Bjornsson, Neuschel

HEAD ESSAY PRIZE ---------- Upton

HENRY M. LOVE SCHOLARSHIP ---------- Pressel

HOLBROOK PRIZE IN BIOLOGY ---------- Fairchild

JAMES SOPER MERRILL PRIZE ---------- McCuen

KELLOGG ESSAY PRIZE ---------- Small

MCKINNEY PRIZE SPEAKING ---------- *Junior, Tied,* Ching, Soued; *Sophomore, First,* Brown, *Second,* Jungman; *Freshman,* Bailey

NELSON CLARK DALE JR., PRIZE IN MUSIC ---------- Grad

NORTON PRIZE ---------- Fazio

OREN ROOT PRIZE SCHOLARSHIPS IN MATHEMATICS ---------- D'Accurzio, Weiss

PHI BETA KAPPA IMPROVEMENT PRIZE ---------- Buckbee

PRUYN ESSAY PRIZE ---------- Ort

PUTNAM PRIZE IN AMERICAN HISTORY ---------- Muller

RENWICK PRIZE SCHOLARSHIP IN BIOLOGY ---------- Flomenbaum

ROGERS PRIZE IN GEOLOGY ---------- Tessier

SOPER ESSAY PRIZE ---------- Copping

SOUTHWORTH PRIZE IN PHYSICS ---------- Van Alstine

TEACHERS COLLEGE, COLUMBIA UNIVERSITY, BOOK PRIZE ---------- Beman

TOMPKINS PRIZES IN MATHEMATICS ---------- *First,* Margolies; *Second,* Johnson

UNDERWOOD PRIZE IN CHEMISTRY ---------- *Tied,* McConnell, Sherman

VROOMAN PRIZE SCHOLARSHIP ---------- Baker

WALLACE BRADLEY JOHNSON PRIZE ---------- *First,* Nelson; *Second, Tied,* W. L. Brown, Kimball; *Third,* Goldberg

WINSLOW PRIZE IN GREEK ---------- Lund

WINSLOW PRIZE IN LATIN ---------- Lyman

WINSLOW PRIZE IN ROMANCE LANGUAGES ---------- Wolfe

WYLD PRIZE IN GERMAN ---------- Brown, T. J.

Index

ACADEMIC PROGRAM, 31-44
Acceleration, 39
Administration building, 101
Administration, officers and staff, 141-142
Admission, preliminary application for, opposite 16
Admission requirements, 9-12
Advanced placement, 11
Advisers, Board of, 31-33, 91
Advising, academic, 12, 31-33, 91
Afro-American Cultural Center, 101-102, 113
Alpha Psi Omega, 110
Alumni association scholarships, 21, 22, 24
Alumni organizations, 143-145
Ancient Civilization, courses in, 54
Anthropology, courses in, 45-47, 89
Appendix, 130-151
Application fee, 13
Application form, preliminary, opposite 16
Aptitude tests, 10, 11, 12
Art, courses in, 47-48
Art lending library, 108
Art program, 107-108
Art studios, 107
Athletic facilities, 103
Athletic program, 6, 75, 105, 108-109
Automobiles, 116
Awards, academic, 148-151

BEQUESTS AND GIFTS, FORM FOR, inside back cover
Bills, payment of, 16-17
Biology, courses in, 48-50
Biology fellowship and prizes, 120, 125, 126
Black Union, 113
Board and room charges, 14
Board of Trustees, 131-132
Botany, Kirkland courses in, 89
Bristol Campus Center, 101
Broadcasting, student, 103, 111-112
Buildings and grounds, 99-104
Business, careers in, 94
Buttrick Hall, 101

CALENDAR, COLLEGE, 1969-70, 1970-71, 4
Campus, 99-104
Career planning, 91-95
Chapel, 102, 106
Chemistry, courses in, 50-52
Chemistry prizes, 125, 126
Choir, 110
Cinema, course in, 52
Classical languages, courses in, 52-54
Classics prizes and scholarships, 121-122, 123, 125, 126
Classrooms, 100-101
Clubs, student, 112-113
Cluster college plan, 6, 42
Colgate University, cooperative program with, 43, 95
Collections, library, 104
College Board Examinations, 10-11
College records, 130-151
College Scholarship Service, 19, 26

Commencement, dates, 4
Commencement honors, 120
Committees, faculty, 140
Committees, student, 105, 106, 108, 110, 111
Committees, trustee, 132-133
Commons, Soper Hall of, 103
Comparative Literature, courses in, 54, 88
Comprehensive examination, 31, 37-38
Concentration requirement, 33-34. See also requirements of specific departments.
Concerts, 110-111
Coordinate college plan, 6, 42, 87-89
Counseling, 12, 31-33, 91
Courses of instruction, 45-89
Courses, late registration, 43
Courses, over-election fee, 14
Courses, selection, 31-34
Credit, summer school, 44
Credit, transfer, 12
Curriculum, 6, 31-37, 105

DANCE, KIRKLAND COURSES IN, 87
Debate, inter-collegiate, 110-111
Debate prizes, 125
Degree requirements, 33-34, 37-38, 39
Degrees conferred, 146-147
Delta Sigma Rho, 110
Dentistry, careers in, 92
Department honors, 120, 148
Deposits, 14
Dining hall, 103
Dismissal, honorable, 40
Dormitories and rooms, 14, 100
Drama, Kirkland courses in, 87
Drama and Theater concentration, 33
Dramatics, 110, 125

EARLY DECISION, 11
Economics, courses in, 55-56, 89
Economics prize, 128
Education, careers in, 94
Education, cost to student, 13
Education, courses in, 56-57
Employment opportunities, student, 13, 28, 95
Endowment, 5
Engineering, careers in, 92
Engineering, three-two cooperative program, 10, 92
English, courses in, 57-60, 88
English prizes and scholarships, 123, 127
Enrollment, 5, 8
Essay prizes, 127
Examinations, comprehensive, 31, 37-38
Examinations, entrance, 10-12
Examinations, special, fee, 15
Exhibitions, art, 107, 108
Expenses, 13-17

FACULTY, COMMITTEES, 140
Faculty, members of, 134-140
Faculty-student ratio, 6
Fees, 13-17, 38, 43
Fellowships, 120-121, 150-151
Films, 52, 112
Financial aid, 13, 19-28
Foreign study, 40, 43, 95
Foreword, 5
France, Junior Year in, 40
Fraternities, 115
French, courses in, 80-83, 88

GEOLOGY, COURSES IN, 60-62
Geology prize, 126
German, courses in, 62-63
German prize and scholarship, 122, 127
Gifts and bequests, form for, inside back cover
Government, courses in, 63-66, 89
Government, student, 105
Government prize, 127
Government service, careers in, 94
Grade requirement, 34, 36, 38-39
Grades system, 38
Graduate study, fellowships for, 120-121
Graduate study, preparation for, 91-95
Graduation fee, 15
Graduation requirements, 33-34, 37-38, 39
Greek, courses in, 52-53
Greek prizes and scholarship, 122, 125, 126
Guarantee deposit, 14

HAMILTON, ALEXANDER, 5
Hamilton-Oneida Academy, 5
Harvard University, Master of Arts in Teaching, cooperative program with, 94
Health Center, 15, 102
History, College, 5-6
History, courses in, 66-70, 88
History prizes, 124, 125
History of Science, Kirkland courses in, 89
Honor societies, class, 115
Honor system, 6, 106
Honorary degrees, 147
Honorary societies, 110, 112, 119
Honors, Commencement, 120, 148-149
Honors, department, 120
Honors and awards, 118-128, 148-151

INDEPENDENT COVERAGE OF WORK, 15, 41-42
Independent study, 15, 41-42
Infirmary, 15, 102
Insurance coverage, 15
Inter-Arts, Kirkland seminar in, 87
Interview, admission, 10

JOURNALISM, 112
Journalism prize, 127
Junior Year in France, 40

KIRKLAND, SAMUEL, 5, 6, 102
Kirkland College, 6, 42, 87-89
Kirkland College courses, election of, 87
Kirkland Cottage, 102

LABORATORIES, 100-101
Languages, cooperative program with Princeton University, 43
Latin, courses in, 53
Latin prizes and scholarships, 122, 123, 125, 126-127
Law, careers in, 94
Lectures, 106, 107
Library, 103-104
Linguistics, Kirkland courses in, 88
Loans, 13, 27-28
Location of College, 99

MAJORS, 33-34. See also requirements of specific departments.
Mathematics, courses in, 70-71, 89
Mathematics prizes and scholarships, 122, 123, 126
Medical services, 15, 102
Medicine, careers in, 92
Minor Theater, 103, 110
Minority groups, 9
Modern Languages concentration, 33
Munson-Williams-Proctor Institute, 107
Music, courses in, 71-73, 87
Music, student organizations, 110-111
Music performance, instruction in, 16, 111
Music prize, 124
Musical instruments, College, 111

NEWSPAPER, STUDENT, 112

OFFICES, FACULTY, 100-101
Oratory prizes, 124
Organizations, student, 105-115
Over-all fee, 15

PASS-FAIL OPTION, 38-39
Payment of bills, 16-17
Phi Beta Kappa, 119
Philosophy, courses in, 73-74, 88
Philosophy prizes, 124, 126
Philosophy of Science, Kirkland course in, 89
Physical education program, 39, 75
Physical education requirement, 39, 75
Physician, College, 102
Physics, courses in, 75-77
Physics prize, 126
Pi Delta Epsilon, 112
Placement Office, 28, 95
Poetry, Kirkland workshops in, 87-88
Princeton University, cooperative program with, 43
Prize scholarships, 121-123
Prizes, 115, 124-128, 150-151
Professions, preparation for, 91
Psychologist, clinical, 102
Psychology, courses in, 78-79, 89
Publications, student, 111-112

RADIO STATION, STUDENT, 103, 112
Record library, 110
Refunds, 17
Registration, 12
Registration deposit, 14
Religion, courses in, 79-80
Religion prizes, 125, 127
Religious affiliation, 6
Religious services, 106
Requirements, admission, 9-12
Requirements, concentration. See also requirements of specific department, 33-34
Requirements, graduation, 33-34, 37-38, 39
Requirements, physical education, 39
Requirements, residence, 39
Requirements, scholarship aid, 19, 26-27
Residence requirement, 39
Resources of the College, 99-104
Romance Languages, courses in, 80-85, 88
Romance Languages prize, 127
Room charge, refund, 14
Room and board charges, 14
Rooms, dormitory, 14, 100
Root Art Center, 101, 107
Root Fellowship, 121
Russian, courses in, 85-86

SCHOLARSHIP HONORS, 148-150
Scholarships, 5, 13, 19-27, 121-123, 150-151
Scholarships, requirements for, 19, 26-27
Science, History of, Kirkland courses in, 89
Science, Philosophy of, Kirkland course in, 89
Sciences, preparation for graduate study, 93
Sciences fellowship, 121
Secondary school preparation, 10
Service organizations, 113-115
Sigma Xi, 119-120
Social fee, 16
Social organizations, 115
Sociology, Kirkland courses in, 89
South and East Asia, History and Culture, concentration, 34
Spanish, courses in, 83-85
Speech, courses in, 86-87
Speech prizes, 125
Standards for written and oral work, 37
Steuben, Baron von, 5
Student activities building, 101
Student committees, 105, 106, 108, 110, 111
Student counseling, 12, 31-33, 91
Student employment, 13, 28, 95
Student-faculty ratio, 6
Student government, 105
Student organizations, 105-115
Student Senate, 105, 113, 115
Summer school, 44
Suspension, 40

TEACHING, CAREERS IN, 94
Teaching, Master of Arts in, 94
Tests, aptitude, 10, 11
Theater, Minor, 103, 110
Theater and Drama concentration, 33
Transfer, 12
Trustees, Board of, 131-132
Trustees, committees of, 132-133
Tuition and fees, 14-16
Tuition payment plans, 16-17

UNDERGRADUATE LIFE, 105-116

VACATIONS, 4

WASHINGTON, D.C., SEMESTER IN, 41
WHCL-FM, 103, 112
Winter Study program, 17, 31, 34-37
Writing, Kirkland workshops in, 88